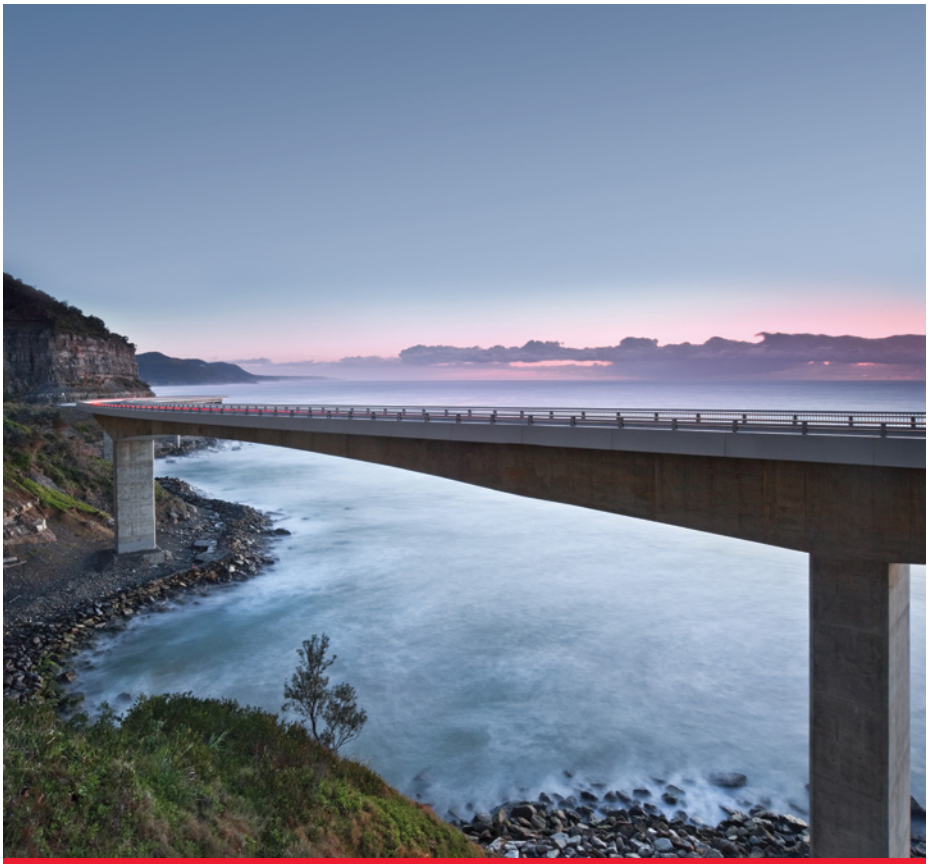

Product Guide

FOSROC

constructive solutions

About Fosroc

Since the company's beginnings over 80 years ago, Fosroc has developed into an international leader in delivering construction solutions for projects across a broad range of market segments including transport, utilities, industrial and general buildings.

Fosroc's commitment to customer service and technical support is second to none. We work closely with architects, structural engineers, contractors and owners to best understand their requirements. Together we can develop a bespoke solution for every construction project, adding value to become more than just a materials supplier.

Fosroc has an extensive network of offices and manufacturing locations across Europe, the Middle East, India, North, South and East Asia, and is further represented in other regions across the world by distributor and licensee partners.

Parchem is the licensed distributor of Fosroc products in Australia and Concrete Plus is the licensed distributor in New Zealand.

Selecting from the full portfolio of Fosroc products and services and integrating expert technical support, world class customer service and innovation, Fosroc goes beyond just product selling to ensure that we partner with our customers to deliver complete construction solutions.

- **Protective Coatings**
- **Concrete Repairs**
- **Industrial Flooring**
- **Joint Sealants**
- **Grouts and Anchors**
- **Waterproofing**

Parchem and Concrete Plus are also licensed distributors of a number of leading international brands including Index and Vandex waterproofing products from Europe, and Vector Corrosion Technologies Anodes.

Vandex index VECTOR

FOSROC constructive solutions

Fosroc deliver solutions, not just products

As part of building the Fosroc range in Australia and New Zealand, and aligning the portfolio with the Global Fosroc product range there are a number of changes to the Parchem product names listed below.

ISO 9001 Quality Assurance

All renamed products, now supplied under the Fosroc brand, will be manufactured to the same specifications and standards as the previous Parchem products.

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Aegis MSP	Cemtop HD30	80
Conwrap	Proofex Conwrap	128
Duraflex	Nitoseal MS250	109
Duraflex FC	Nitoseal MS400	110
Durafloor Anti Slip Grains	Nitoflor Anti Slip Grains	90
Durafloor FC	Nitoflor FC150 HP FC	86
Durafloor HD	Nitoflor HD	76
Durafloor HD-S	Nitoflor HD-S	77
Durafloor HP	Nitoflor FC150 HP	85
Durafloor Level Prime	Nitoprime 330	81
Durafloor N	Nitoflor N	89
Durafloor SL	Nitoflor SL	87
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Emer-Band	Expoband 110	127
Emer-Proof 750	Nitoproof 750	157

Previous Name	New Name	Page
Emer-Proof Aqua Barrier Advanced	Nitoproof 810	158
Emer-Proof Aqua Barrier Landscape	Nitoproof 210	153
Emer-Proof Aqua Barrier Quick Dry	Nitoproof 410	155
Emer-Proof Aqua Barrier Undertile	Nitoproof 310	154
Emer-Proof Aqua Barrier Vapour Control	Nitoproof 510	156
Emer-Proof Drain V	Proofex Sheetdrain 81	144
Emer-Proof EJB	Nitoband	170
Emer-Proof HD	Proofex HD	143
Emer-Proof HDPE	Proofex 3100	142
Emer-Proof Tilebond Flex	Nitotile Flex	169
Emer-Seal 200	Nitoseal PU612	120
Emer-Seal Constuction Silicone	Nitoseal SC100	113
Emer-Seal Constuction Silicone HM	Nitoseal SC120	114
Emer-Seal Constuction Silicone HM FC	Nitoseal SC140	115
Emer-Seal CR	Nitoseal SC600	121
Emer-Seal PU25	Nitoseal PU250	111
Emer-Seal PU40	Nitoseal PU400	112
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Concrete Repair - Cementitious Mortars

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Concrete Repair

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Concrete Repair - Epoxy Mortars

Concrete Repair

Section summary

Primers

Crack Injection

Refer to Technical Data Sheet (TDS) for application guidelines.

Notes

Renderoc FC

Fairing mortar screed, to cover surface imperfections, polymer modified - (0 mm to 3 mm thickness)

Description

Renderoc FC cementitious fairing coat is supplied as a ready to use blend of dry powders which requires only the site addition of clean water to produce a highly consistent cementitious fairing mortar.

The material is based on a blend of cements, graded aggregates, special fillers and chemical additives to provide a material with good handling characteristics, while minimising water demand.

The product exhibits excellent thermal compatibility with concrete and is fully compatible with other Renderoc mortars and Dekguard coatings.

Uses

Renderoc FC cementitious fairing coat is designed for application in thin layers to produce a fair-faced appearance to concrete surfaces or masonry surfaces in readiness to receive a protective / decorative coating.

Surface imperfections up to 3 mm in depth can be filled with the scrape coat application. Voids of greater depth should be separately filled as a prior operation, again limiting the Renderoc FC material thickness to 3 mm.

Renderoc FC can be used independently to infill surface imperfections and voids or to render large sections of concrete or masonry up to 3 mm thickness. Also used in association with other Renderoc mortars. Under normal conditions, the product does not require an independent primer or curing membrane.

Advantages

- Excellent bond to the concrete substrate
- Easy to use - no independent primer or curing membrane necessary
- Pre-blended to overcome site-batched variations - only the site addition of clean water is required
- Contains no chloride admixtures

Supply

15 kg bag

Yield / Coverage

9.0 litres / 15 kg bag (approx. 3.0 m^2 at 3mm thickness)

Renderoc HB

General purpose, economical, polymer modified patch repair mortar

Uses

For the reinstatement of large areas of concrete and for small, localised patch repairs. Renderoc HB is alkaline in nature and will protect embedded steel reinforcement. It is specifically designed for vertical and overhead high-build applications. The mortar is suitable where medium strength, as well as exceptional chloride and carbon dioxide resistance is required.

Advantages

- Lightweight formulation enabling extra high-build and thereby saving time and expense of multiple applications
- Reduces need for formwork
- Can be applied by wet spray process for fast, high-build repairs
- Extremely low permeability provides maximum protection against carbon dioxide and chlorides
- Excellent bond to concrete substrates
- Shrinkage compensated and contains no chloride admixtures
- Pre-bagged to overcome site-batched variations - only the site addition of clean water required

Description

Supplied as a ready to use blend of dry powders requiring only the site addition of clean water to produce a highly consistent, lightweight repair mortar. Renderoc HB is based on Portland cement, graded aggregates, lightweight fillers and chemical additives and is polymer modified to provide a mortar with good handling characteristics, while minimising water demand. The hardened product exhibits excellent thermal compatibility with concrete and outstanding water repellent properties. The low water requirement ensures fast strength gain and long-term durability.

Supply

15 kg bag

Yield / Coverage

12.5 litres per 15 kg bag (approx.1.25 m^2 at 10 mm thickness)

Refer to Technical Data Sheet (TDS) for application guidelines.

Renderoc HB25

High performance, light-weight, very low shrinkage, patch repair mortar, compatible with concrete 15 - 30 MPa

Uses

For the reinstatement of large areas of concrete where low permeability characteristics, lowest drying shrinkage characteristics are required. Renderoc HB25 has been specifically engineered for vertical and overhead repair work where its lightweight nature makes it ideal. The mortar can also be used for small, localised patch repairs.

Advantages

- Maximum compatibility with concrete with a compressive strength in the range 15 - 30 MPa
- Polymer-modification provides extremely low permeability to water, carbon dioxide and chlorides
- Exceptional system of shrinkage compensation provides long-term dimensional stability
- Lightweight formulation enables extra high-build - fewer cold joints
- Frequently obviates the need for formwork
- Can be applied quickly and efficiently by wet spraying
- One component, pre-bagged to overcome site-batched variations
- Contains no chloride admixtures

Description

Supplied as a ready to use blend of dry powders which requires only the site addition of clean water to produce a highly consistent, lightweight repair mortar. Renderoc HB25 is based on Portland cement, graded aggregates, lightweight fillers and chemical additives which provide a mortar with good handling characteristics while minimising water demand. The low water requirement ensures good strength gain and long-term durability.

Supply

15 kg bag

Yield / Coverage

12.5 litres per 15 kg bag (approx. 1.25 m^2 at 10 mm thickness)

Renderoc HB40

High performance, medium weight, very low shrinkage, patch repair mortar, compatible with concrete 30 - 45 MPa

Uses

For reinstatement of large areas of reinforced concrete where low permeability characteristics are required and where higher compressive strength is an important consideration. Renderoc HB40 has been engineered for repair of columns and beams but, because of its relatively low fresh wet density, is also suitable for soffits and other overhead repair work. The mortar can also be used for small, localised patch repairs.

Renderoc HB40 is approved for use with Galvashield XP, with a resistivity <15,000 Ω cm @ 28 days.

Advantages

- Maximum compatibility with concrete of compressive strength 30 - 45 MPa
- High-build applications possible while maintaining higher compressive strengths - fewer cold joints
- Polymer-modification provides extremely low permeability to water, carbon dioxide and chlorides
- Exceptional system of shrinkage compensation provides long-term dimensional stability
- Can be applied quickly and efficiently by wet spraying
- Contains no chloride admixtures
- Suitable for internal and external applications

Description

Renderoc HB40 is a concrete reinstatement mortar supplied as a ready to use blend of dry powders requiring only the site addition of clean water to produce a highly consistent, medium-weight repair mortar. It is based on Portland cement, graded aggregates, lightweight fillers and chemical additives which provide a mortar with good handling characteristics while minimising water demand. The low water requirement ensures good strength gain and long-term durability.

Supply

20 kg bag

Yield / Coverage

12.9 litres per 20 kg bag (approx. 1.3 m² at 10 mm thickness)

Refer to Technical Data Sheet (TDS) for application guidelines.

Renderoc HB50

High performance fibre reinforced, medium weight concrete patch repair mortar conforming to EN 1504-3 Class R3

Uses

For the reinstatement of concrete where low permeability characteristics and high compressive strength is a key requirement.

Renderoc HB50 has been specifically developed for vertical and overhead repair work where its lighter weight nature and high build characteristics makes it ideal.

Renderoc HB50 achieves 50 MPa @ 28 days; if higher compressive strength is required Renderoc HB70 should be used.

Advantages

- Maximum compatibility with concrete of compressive strength 25 - 50 MPa
- Medium weight formulation enabling extra high-build and thereby saving time and expense of multiple applications and reduces the need for formwork
- Sustainable product with lower carbon foot print due to formulation based on supplementary cementitious materials
- Can be applied by the wet spray process for fast, exceptionally high-build repairs with enhanced strength
- Extremely low permeability provides maximum protection against carbon dioxide and chlorides
- Excellent bond to SSD concrete substrates – no separate primer required in most circumstances - refer to TDS
- Shrinkage compensated

Description

Renderoc HB50, a medium weight concrete repair mortar, is supplied as a ready to use blend of dry powders which requires only the site addition of clean water to produce a highly consistent repair mortar.Renderoc HB50 is based on the latest advances in cement, fillers and chemical additives technology and is polymer modified to provide a mortar with good handling characteristics, while minimising water demand. The low water requirement ensures fast strength gain and longterm durability

Supply

20 kg bag

Yield / Coverage

12.1 litres per 20 kg bag (approx. 1.2 m² at 10 mm thickness)

Renderoc HB70

High build, high strength, very low shrinkage, patch repair mortar, conforming to EN 1504-3 Class R4

Uses

For the reinstatement of large areas of concrete and for small, localised patch repairs. Renderoc HB70 is alkaline in nature and will protect embedded steel reinforcement. It is specifically designed for locations where high-build and high compressive strengths are required or in locations where good abrasion resistance is necessary. The mortar is suitable where resistance is required to chlorides and carbon dioxide.

Advantages

- Maximum compatibility with concrete of compressive strength >45 MPa
- High-build repairs and suitable for internal and external use
- Exceptional system of shrinkage compensation, provides long-term dimensional stability
- Low permeability provides sound protection against carbon dioxide and chlorides
- Can be applied by the wet or dry spray process for fast, exceptionally high build repairs with enhanced characteristics
- Pre-bagged to overcome site-batched variations - only the site-addition of clean water required
- Contains no chloride admixtures

Description

Supplied as a ready to use blend of dry powders requiring only the site addition of clean water to produce a highly consistent, high strength repair mortar. Renderoc HB70 is based on Portland cement, graded aggregates, special fillers and chemical additives and is polymer modified to provide a mortar with good handling characteristics, while minimising water demand. The hardened product exhibits excellent thermal compatibility with concrete and outstanding water repellent properties. The low water requirement ensures fast strength gain and long-term durability.

Supply

20 kg bag

Yield / Coverage

11.5 litres per 20 kg bag (approx. 1.2 m^2 at 10 mm thickness)

Refer to Technical Data Sheet (TDS) for application guidelines.

Renderoc Rapid

Extremely fast setting, reinstatement mortar, trafficable within 2 hours - (>25 mm thickness)

Uses

For fast reinstatement of bridge joint edges, roadway slabs, or where placement of localised areas is required. Renderoc Rapid is designed to accept traffic 1 - 2 hours after placement, enabling fast repairs and concrete replacements to take place, whilst minimising any traffic interruptions. The product is alkaline in nature and will protect embedded steel reinforcement. It may be used in both internal and external applications.

When reinstating floor and pavement areas having a repair area greater than 10 m^2, the use of Paveroc is recommended.

Advantages

- Rapid strength gain - will accept traffic in 1 - 2 hours
- High strength, abrasion and weather resistance
- Single component product eliminates site batching and requires only the site addition of clean water
- Excellent bond to the concrete substrate
- Shrinkage compensated
- Contains no chloride admixtures

Description

Renderoc Rapid is supplied as a ready to use blend of dry powders requiring only the site addition of clean water to produce a highly consistent, high strength reinstatement mortar which virtually self-compacts. The material is based on a blend of cements, graded aggregates, special fillers and chemical additives to provide a mortar with good handling characteristics, while minimising water demand. Renderoc Rapid exhibits excellent thermal compatibility with concrete and good water repellent properties. The low water requirement ensures fast strength gain and long-term durability.

Supply

20 kg bag

Yield / Coverage

Approx. 10.2 litres per 20 kg bag (approx. 0.4 m^2 at 25 mm thickness)

Renderoc LA55

Super fluid, low alkali, micro-concrete reinstatement mortar, for form and pour applications

Uses

Ideal for reinstatement of large, structural sections of concrete as well as for many smaller locations where difficulties of access make hand or trowel-applied mortars impractical. Highly fluid nature of Renderoc LA55 obviates the need for compaction and vibration even where access to the repair zone is restricted or where reinforcement is congested. Suitable for use where excellent chloride and carbon dioxide resistance is required or for repairs to concrete affected by alkali-silica reaction (ASR). The low resistivity of Renderoc LA55 makes it suitable for electro-chemical repairs.

Advantages

- High level of control of plastic and long-term drying shrinkage
- Excellent bond to concrete substrates without independent primer
- Very low permeability provides excellent protection against carbon dioxide and chlorides
- Exceptional flow allows pumping or pouring into restricted locations
- Self-compacting nature eliminates honeycombing and displaces air without vibration
- Suitable for electro-chemical repairs

Description

Supplied as a ready to use blend of dry powders requiring only site addition of clean water to produce a free-flowing, shrinkage compensated, micro-concrete suitable for large volume repairs at a nominal thickness between 50 mm and 200mm depending on the repair configuration.

The material is based on Portland cement, graded aggregates, special fillers and chemical additives, which minimises water demand, promotes high fluidity, ensures fast strength gain and long-term durability. A unique system controls plastic and long-term drying shrinkage. The aggregate grading is designed to aid uniform mixing and to eliminate segregation under pumping pressures. It's low alkali content minimises the risk of alkali–silica reaction. The hardened product exhibits excellent thermal compatibility and very low water permeability.

Supply

20 kg bag

Yield

Approx. 10.0 litres per 20 kg bag

Refer to Technical Data Sheet (TDS) for application guidelines.

Renderoc LA55 Plus

High strength, shrinkage controlled, polymer modified, fluid micro-concrete for structural form and pour repairs

Uses

Renderoc LA55 Plus is ideal for the reinstatement of large, structural sections of concrete as well as for many smaller locations where difficulties of access make hand or trowel applied mortars impractical. The highly fluid nature of Renderoc LA55 Plus obviates the need for compaction and vibration even where access to the repair zone is restricted or where reinforcement is congested.

It is suitable for use where excellent chloride and carbon dioxide resistance is required or for repairs to concrete affected by alkali-silica reaction (ASR).

Advantages

- Maximum compatibility with concrete compressive strength, 30-70 MPa
- Unique dual expansion system offers an extremely high level of control of plastic and long-term drying shrinkage
- Low alkali content minimises risk of alkali-silica reaction
- Excellent bond to concrete substrates without independent primer
- Extremely low permeability provides excellent protection against carbon dioxide and chlorides
- Enhanced durability - Meets the requirements of durability to RMS B80 concrete specification
- Sustainable product with low carbon foot print and reduced emissions of greenhouse gases
- Exceptional flow allows pumping or pouring into restricted locations
- Self-compacting nature eliminates honeycombing and displaces air without vibration

Description

Renderoc LA55 Plus is supplied as a ready to use blend of dry powders which require only the site addition of clean water to produce a free-flowing, shrinkage compensated, micro- concrete suitable for large volume repairs at a nominal thickness between 50 mm and 500mm depending on the repair configuration.

The aggregate grading is designed to aid uniform mixing and to eliminate segregation under pumping pressures.

Supply

20 kg bag

Yield

Approx. 9.7 litres per 20 kg bag

Renderoc LA55 Rapid

High performance, flowable, fast setting, low alkali, micro-concrete reinstatement mortar

Uses

Renderoc LA55 Rapid is ideal for the reinstatement of large, structural sections of concrete as well as for many smaller locations where difficulties of access make hand or trowel applied mortars impractical. The highly fluid nature of Renderoc LA55 Rapid obviates the need for compaction and vibration even where access to the repair zone is restricted or where reinforcement is congested. It is suitable for use where excellent chloride resistance is required or for repairs to concrete affected by alkali-silica reaction (ASR). Renderoc LA55 Rapid is alkaline in nature and will protect embedded steel reinforcement.

Advantages

- Maximum compatibility with concrete compressive strength, 30-40 MPa
- Excellent long term drying shrinkage control
- Low alkali content minimises risk of alkali-silica reaction
- Excellent bond to concrete substrates without independent primer
- Very low permeability provides excellent protection against carbon dioxide and chlorides
- Exceptional flow allows pumping or pouring into restricted locations
- Self-compacting nature eliminates honeycombing and displaces air without vibration
- Pre-bagged to overcome site-batched variations - only the site addition of clean water is required

Description

Renderoc LA55 Rapid is supplied as a ready to use blend of dry powders which require only the site addition of clean water to produce a free-flowing, shrinkage compensated, microconcrete suitable for large volume repairs at a nominal thickness in excess of 50 mm.

The aggregate grading is designed to aid uniform mixing and to eliminate segregation under pumping pressures. It's low alkali content minimises the risk of alkali–silica reaction. The hardened product exhibits excellent thermal compatibility and very low water permeability.

Supply

20 kg bag

Yield

Approx. 10.0 litres per 20 kg bag

Renderoc G

An acid resistant, geopolymer repair mortar for use in highly corrosive environments based on sustainable technology

Uses

Renderoc G is a new generation geopolymer repair mortar material based on sustainable technology that offers outstanding resistance to the attack of aggressive acids and chemicals.

Renderoc G is a versatile material that can be used for long term protection in a number of different aggressive environments which include:

- Use as an acid resistant grout for back fill of lining systems
- An acid resistant grout for use with impressed current cathodic protection
- For the protection of concrete deteriorated by soft water errosion

Advantages

- Has excellent long term resistance to acidic conditions
- Is versatile material that can be hand/ trowel applied as well as spray applied for large repairs
- Low shrinkage material
- Excellent compressive and tensile strength values even when immersed in long term acid environments
- Outstanding adhesive properties
- Renderoc G is based on industrial cementitious by-products and contains a minimal amount of cement providing an environmentally friendly material
- Potable water approved - complies to AS/NZS 4020:2005

Description

Renderoc G is a new generation geopolymer repair mortar that offers outstanding resistance to the attack of aggressive organic and inorganic acids and chemicals. Renderoc G is a geopolymer mortar based on waste materials such as fumed silica, blast furnace slag and fly ash.

Supply

20 kg bag

Yield

Approx. 10 litres per 20 kg bag (approx. 1.0 m^2 at 10 mm thickness)

Renderoc CAC

(Previously known as SewperCoat)

High performance mortar with superior biogenic corrosion resistance

Uses

Renderoc CAC is used to rehabilitate sewer infrastructures that have been damaged over years by biogenic corrosion. Renderoc CAC can also be used to provide a protection lining to new infrastructures that will be exposed to biogenic corrosion conditions.

Advantages

The properties of Renderoc CAC result from the chemical and mineral phases formed during the hydration process. Renderoc CAC inhibits bacterial activity which drastically reduces the production of sulphuric acid.

- Neutralizes sulfuric acid
- Readily adheres to damp concrete
- Easy monolithic installation
- Provides long term corrosion protection
- Contains no VOC's

Description

Renderoc CAC is a cementitious mortar designed to provide exceptional resistance to the biogenic corrosion environment found in sanitary sewers. The biogenic corrosion resistance of Renderoc CAC is due to its 100% calcium aluminate composition, i.e. the combination of calcium aluminate cement and calcium aluminate aggregates.

Renderoc CAC is a cementitious mortar, fully compatible with the moist environment found in sewers.

Renderoc CAC is available as a Wet Spray product or Dry Spray product.

Supply

20 kg bag

Yield

Approx. 10.3 litres per 20 kg bag

Guncrete E

High strength, low shrinkage, high build spray applied repair mortar

Uses

For the reinstatement of large areas of concrete and for small, localised patch repairs in areas such as sea walls bridge decks and piers, tunnels, sewer pipes, etc.

Advantages

- High-build
- High early strength
- Low drying shrinkage values
- Low rebound
- Chloride free

Description

Guncrete E is supplied as a ready to use dry powder for use with standard dry spray gunite or shotcrete equipment. The material is formulated to produce a high-build material which can be applied by standard spraying techniques.

Supply

20 kg bag

Yield

Approx. 10 litres per 20 kg bag

Patchroc GP

Floor / pavement patch repair, fast set mortar (15 - 75 mm depth)

Uses

For the emergency reinstatement of localised patches in concrete pavements, airport aprons, access ramps, roadways and many industrial situations such as gangways and warehouse floors. Patchroc GP is particularly useful where interruption to traffic must be minimised. The product is alkaline in nature and will protect embedded steel reinforcement. It may be used internally and externally.

For the reinstatement of large areas of concrete pavements and floors, the use of Paveroc is recommended.

Advantages

- Rapid strength gain - will accept traffic in three hours
- High strength, abrasion and weather resistance
- Single component product eliminates site batching and requires only the site addition of clean water
- Excellent bond to the concrete substrate
- Shrinkage compensated
- Contains no chloride admixtures

Description

Supplied as a ready to use blend of dry powders which requires only the site addition of clean water to produce a highly consistent, high strength patch repair mortar which virtually self-compacts. The material is based on a blend of cements, graded aggregates, special fillers and chemical additives to provide a mortar with good handling characteristics, while minimising water demand. Patchroc GP exhibits excellent thermal compatibility with concrete and good water repellent properties. The low water requirement ensures fast strength gain and long-term durability.

Supply

20 kg bag

Coverage

Approx. 10.0 litres per 20 kg bag (0.5 m^2 at 20 mm thickness)

Patchroc C

Floor / pavement patch repair, fast set mortar (25 - 200 mm depth)

Uses

For the emergency reinstatement of localised patches in concrete pavements, airport aprons, access ramps, roadways and many industrial situations such as gangways and warehouse floors. Patchroc C is particularly useful where interruption to traffic must be minimised. The product is alkaline in nature and will protect embedded steel reinforcement. It may be used internally and externally.

For the reinstatement of large areas of concrete pavements and floors, the use of Paveroc is recommended.

Advantages

- Rapid strength gain - will accept traffic in two hours
- High strength, abrasion and weather resistance
- Single component product eliminates site batching and requires only the site addition of clean water
- Excellent bond to the concrete substrate
- Shrinkage compensated
- Contains no chloride admixtures

Description

Supplied as a ready to use blend of dry powders which requires only the site addition of clean water to produce a highly consistent, high strength patch repair mortar which virtually self-compacts. The material is based on a blend of cements, graded aggregates, special fillers and chemical additives to provide a mortar with good handling characteristics, while minimising water demand. Patchroc C exhibits excellent thermal compatibility with concrete and good water repellent properties. The low water requirement ensures fast strength gain and long-term durability.

Supply

20 kg bag

Coverage

Approximately 9.60 litres/20 kg bag (0.38 m^2 at 25 mm thickness)

Paveroc

Floor / pavement large area, repair mortar (15 - 50 mm depth)

Uses

For the reinstatement of large areas of concrete pavements and floors to avoid the total replacement of bays. The rapid strength gain of Paveroc will ensure that down-time is significantly reduced. The product is alkaline in nature and will protect embedded steel reinforcement. It may be used internally and externally.

For emergency patching of small areas of concrete pavements and floors, the use of Patchroc GP is recommended.

Advantages

- Rapid strength gain - will generally accept pedestrian traffic at 16 hours
- High strength, abrasion and weather resistance
- Single component product eliminates site batching and requires only the site addition of clean water
- Excellent bond to the concrete substrate
- Shrinkage compensated
- Contains no chloride admixtures

Description

Supplied as a ready to use blend of dry powders which requires only the site addition of clean water to produce a highly consistent, high strength repair mortar for large areas of concrete pavements and floors. The material is based on a blend of cements, graded aggregates, special fillers and chemical additives to provide a mortar with good handling characteristics, while minimising water demand. Paveroc exhibits excellent thermal compatibility with concrete and good water repellent properties. The low water requirement ensures fast strength gain and long term durability.

Supply

20 kg bag

Coverage

Approx. 9.4 litres per 20 kg bag (0.63 m^2 at 15 mm thickness)

Refer to Technical Data Sheet (TDS) for application guidelines.

Nitomortar AP

Multi purpose, epoxy adhesive repair paste, also used as an adhesive for Nitofill LV, and Expoband 110 bandage system

Uses

For speedy and permanent patching repairs to concrete structures; bonding of precast concrete components and repair work to cementitious substrates where strength, impermeability to water, and resistance to aggressive chemicals is essential; emergency repairs to concrete structures and industrial floors in chemical handling and process areas.

The chemical resistance and thixotropic nature of Nitomortar AP makes it an ideal material for embedding Expoband 110 into sewerage, potable water tanks and high movement joint applications.

The thixotropic nature of Nitomortar AP also makes the product ideal for setting starter bars, dowels, holding down bolts and anchoring in general. Nitomortar AP is also used as an adhesive for Nitofill LV crack injection system.

Advantages

- Excellent resistance to abrasion and impact
- Unaffected by a wide range of acids, alkalis and industrial chemicals
- Two pack colour coding gives visual check on correct mixing
- Potable water approved to AS4020.2005
- Pre-weighed quality controlled materials ensure consistency and reduce risk of site errors
- Can be used on saturated surface dry (SSD) concrete
- Excellent slump resistance up to 15 mm thick

Description

A versatile two-component, epoxy paste consistency, structural adhesive/filler. It cures, with minimal shrinkage, at temperatures above 5°C to a very strong, dense solid. The mixed material is applied to a suitably prepared surface and quickly cures to form a complete impermeable repair unaffected by many forms of chemical attack.

Supply

3 litre & 15 litre 2 component packs

Nitomortar 903

Solvent free, general purpose, epoxy binder system

Uses

For combining with selected fillers and aggregates to produce epoxy mortars of various consistencies. Also used as supplied, or with selected filler additions to produce vertical bolt or starter-bar grouts, and as a priming system with some Nitoflor epoxy flooring products.

Advantages

- Early development of initial hardness, minimises maintenance disruption
- Unaffected by a wide range of acids, alkalis and industrial chemicals
- Up to 90 MPa compressive strength - depending on mix consistency
- Versatile mixing consistencies for a wide range of applications

Description

Nitomortar 903 is a two-component, low viscosity, epoxy resin system to which Nitomortar F4 Fillers can be added to produce epoxy mortars having a variety of consistencies. Refer to table below.

Supply

6 litre and 30 litre packs
(200 litre drums of resin and hardener also available)

Coverage

5 m^2 per litre (as primer)

Guide to mixed mortars:

Litres of mixed 903 binder	Litres of Nitomortar F4 fillers	Kg of F4 fillers	Yield Litres	Consistency	7 day compressive strength
1	2	2.95	2.4	Fluid paste	76 MPa
1	3	4.42	3.2	Stiff paste	56 MPa
1	4	5.90	4.0	Trowellable	50 MPa
1	5	7.37	5.0	Dry mortar	45 MPa

Refer to Technical Data Sheet (TDS) for application guidelines.

Nitomortar 908

General purpose, high strength, epoxy patch repair mortar

Uses

For speedy and permanent repairs to spalled concrete structures; bedding in of precast concrete beams; and all repair work to concrete and cementitious substrates where strength, impermeability to water, and resistance to aggressive chemicals is essential. Emergency repairs to concrete structures and industrial floors in chemical handling and process areas.

Advantages

- 2 to 3 times stronger than typical concrete. Excellent resistance to abrasion and impact
- Early development of initial hardness, minimises maintenance disruption
- Pre-weighed quality controlled materials ensure consistency and reduce risk of site errors
- Unaffected by a wide range of acids, alkalis and industrial chemicals
- Will cure under damp conditions. Cured surface is impermeable to water
- Two colour pack gives visual check on correct mixing
- Natural grey colour sympathetic to aesthetic requirements

Description

Nitomortar 908 is a blend of silica aggregates bonded together with epoxy resin.

The mixed material is applied to a suitably prepared, and in certain cases primed, surface and quickly cures to form a complete impermeable repair unaffected by many forms of chemical attack.

It is supplied as a two part colour blended material in pre-weighed quantities ready for on-site mixing and use.

Supply

10 litre 2 component pack

Coverage

2 m^2 at 5 mm thick

Nitomortar EL-HB

Hand-applied, trowel finished, high build, chemical and abrasion resistant epoxy repair mortar system (5 mm to 50 mm thickness)

Uses

A high build epoxy mortar with maximum chemical and abrasion resistance for the protection of concrete and similar substrates. Ideal for rehabilitation of manholes, lining of outfalls, sewers and concrete structures.

Advantages

- Unaffected by a wide range of acids, alkalis and industrial chemicals
- Superior chemical and physical bond to virtually all substrates, dry or damp
- Strengths in excess of the concrete to which material is applied. Excellent resistance to abrasion and impact
- Unaffected by freeze-thaw attack which eliminates problems often encountered with conventional water-based materials
- Cured material provides a long lasting waterproof barrier

Description

Nitomortar EL-HB is a three component system consisting of epoxy resins without solvents and a special blend of chemical resistant fillers. When mixed, Nitomortar EL-HB has a thixotropic consistency for easy hand placement, prior to finishing the surface of the application with a trowel.

Nitomortar EL-HB is simple and cost effective for overhead, vertical, horizontal patching and resurfacing to both dry and damp surfaces. The low odour, non-sag, and chemical resistant properties of Nitomortar EL-HB make the ideal material for long lasting concrete rehabilitation.

Nitomortar EL-HB can be used in brick, block and precast concrete manholes. Nitomortar EL-HB provides a permanent impermeable, high strength, monolithic lining to the interior of manhole walls.

Supply

9 litre pack

Coverage

0.5 m^2 per 9 litre pack at 18 mm thick

1.0 m^2 per 9 litre pack at 9 mm thick

Refer to Technical Data Sheet (TDS) for application guidelines.

Nitobond SBR

Water resistant polymer additive, to improve adhesion of cementitious mortars to concrete

Uses

For improving and bonding concrete repair mortars, cementitious floor toppings and screeds, waterproof renders and cementitious slurries. Cementitious mortars are alkaline in nature and will protect embedded steel reinforcement. Mortars produced with Nitobond SBR may be used for horizontal, vertical and overhead repair work. Nitobond SBR may also be used to form a bonding agent for slip bricks, ceramic tiles, etc.

Advantages

- Excellent bond to concrete, masonry, stonework, plaster and blockwork
- Improved tensile and flexural properties allow thin applications
- Single component liquid can be easily gauged as required
- Improves cohesion and workability
- Improves mortars to provide waterproof repairs, renders and toppings which are highly resistant to freeze/thaw cycling
- Contains no chloride admixtures

Description

Nitobond SBR is a modified styrene butadiene rubber emulsion which is supplied as a ready to use white liquid. It is designed to improve the qualities of site-batched cementitious mortars and slurries. Being resistant to hydrolysis, it is ideal for internal and external applications in conjunction with cement.

Supply

20 litre drum

Coverage

Please see Technical Data Sheet (TDS) for details

Nitobond EP

Epoxy resin primer, high strength bonding agent to bond concrete substrate to repair mortars

Uses

For bonding fresh wet cementitious materials to existing cementitious surfaces. For use on horizontal or vertical surfaces where mortar or concrete can be supported by formwork. The long 'open' life makes it suitable for use with formwork or where additional steel reinforcement has to be fitted. The product is ideal for roads, bridges, pavements, loading bays and factories, and for bonded or granolithic floor toppings. Nitobond EP is equally suited to internal and external applications.

Nitobond EP may also be used as part of a repair system where a substrate/repair barrier is required or where the substrate is likely to remain permanently damp or wet.

Advantages

- Positive adhesion - exceeds that of the tensile strength of the host concrete
- Exhibits high mechanical strength
- Can be applied to dry or damp substrates
- Solvent-free - can be used in enclosed locations

Description

Nitobond EP is based on solvent-free epoxy resins containing pigments and fine fillers. It is supplied as a two-component material in pre-weighed quantities ready for on-site mixing and use. The 'base' component is white and the 'hardener' component is black, providing visual evidence (uniform grey colour) that adequate mixing has been achieved.

Supply

1.5 and 6 litre packs

Coverage

4 - 5 m^2 per litre

Refer to Technical Data Sheet (TDS) for application guidelines.

Nitobond HAR

Polymer emulsion bonding agent

Uses

Nitobond HAR is the recommended primer for the Renderoc cementitious mortar repair systems.

Advantages

- Single component - no site mixing
- Easy to use - ready to use straight from container
- High bond strength - excellent bond strength between Renderoc systems and concrete
- Cost effective - economical in use

Description

Nitobond HAR is a single component polymer emulsion system designed as bonding agent for Renderoc repair mortar products.

Supply

Nitobond HAR: 1, 5 and 20 litre drums

Coverage

As primer 4 - 6 m^2 per litre

Nitoprime Zincrich

Zinc-rich epoxy resin primer to protect steel reinforcement within repair mortars

Uses

Nitoprime Zincrich is the recommended anti-corrosion primer for exposed steel reinforcement for use with Renderoc concrete repair mortars. The product actively resists corrosion within the confines of the repair location and avoids the generation of incipient anodes in immediately adjacent locations. Compatible with all Renderoc mortars and fluid micro-concretes.

Advantages

- 'Active' zinc-rich system combats corrosion by electro-chemical means
- Formulated for use with Renderoc repair products
- Single component product - easy to use with no restrictive pot-life
- Time saving - touch dry after 15 - 45 minutes
- Economical - single component ensures almost no waste

Supply

Nitoprime Zincrich: 1 litre can

Fosroc Solvent 10: 4 and 20 litre cans

Coverage

Nitoprime Zincrich: 8 m^2 per litre (approx.)

Note: this coverage figure is theoretical - due to wastage actors and the variety and nature of possible steel substrates, practical coverage figures will be reduced.

Refer to Technical Data Sheet (TDS) for application guidelines.

Nitofill LV

Low viscosity epoxy crack-injection system

Uses

Nitofill LV is designed for injecting cracks in concrete and masonry where there is a need to consolidate a structure or exclude water and air from contact with the reinforcement.

Nitofill LV is a low viscosity, epoxy injection grouting system suitable for cracks down to 0.2 mm at the substrate surface and cracks tapering internally down to 0.01 mm.

The Nitofill LV system is ideal for small scale repairs on-site and is also suitable for insitu or precast concrete elements.

Advantages

- High strength, excellent bond to concrete and masonry
- Low viscosity allows cost effective and efficient repair
- System includes everything necessary to complete the crack injection
- Convenient to use, disposable cartridge pack contains base, hardener and mixing nozzle - also available in 15 litre 2 component packs for use with pumps and mechnical packers

Description

Nitofill LV crack injection system incorporates a two-part epoxy base and hardener contained in a dual cartridge pack or as 2 component 15 litre packs.

Nitofill LV cartridge pack accessory items are available separately: cartridge gun, static mixer nozzle hoses, injection flanges, flange adaptors and flange removing tool.

Supply

450 ml dual cartridge

15 litre pack (base and hardener)

Nitofill PU130

Hydrophobic polyurethane semi-flexible grout for leak sealing

Uses

Nitofill PU130 is a multi-purpose injection resin used to seal leaking cracks, failed joints and to fill voids or fractures in concrete structures. The single component system utilizes an accelerator to “adjust” the reaction profile as needed for job site conditions.

Advantages

- Can withstand high hydrostatic pressures
- Variable reaction time
- Semi-flexible
- Reacts with saline and mineral water
- Solvent free, environmentally safe

Description

Nitofill PU130 is a multi-purpose hydrophobic polyurethane injection resin which is mixed with nominated levels of accelerator to initiate expansion in the product to seal leaking cracks and joints in concrete and fill voids in generally inaccessible locations.

Nitofill PU130 is mixed with up to 5% accelerator to initiate expansion in 12 seconds to produce a foam with >29 times original volume in 55 seconds at 25^{O}C.

Supply

Nitofill PU130:	20 kg pail
Nitofill Accelerator:	1 kg can

Refer to Technical Data Sheet (TDS) for application guidelines.

Nitofill PU150

Multi-purpose hydrophilic flexible polyurethane grout

Uses

Nitofill PU150 is a multi-purpose injection resin designed to seal leaking cracks, voids or fractures in concrete structures.

The single component system reacts with water to form foam that expands filling the void and forming a tight, impermeable elastomeric seal, stopping the water flow.

The resulting appearance of the polyurethane is dependent on the amount of water encountered. This hydrophilic formulation contains no TDI or solvents. The system benefits include high elongation, flexibility and easy installation. The liquid may be pumped as a single component directly into a leaking crack, fracture or joint or injected with water.

Advantages

- High tensile adhesion
- Expands up to 25 times initial volume
- Solvent free, environmentally safe
- Excellent adhesion to most surfaces including concrete, brick and mortar
- Resistant to most organic solvents, mild acids and alkalis
- Rapidly forms a highly resilient flexible seal that allows movement to the crack, fracture or joint
- Reacts even with sea water or mineral water
- Complies to AS/NZS 4020:2005

Description

Nitofill PU150 is a multi-purpose hydrophilic polyurethane injection resin which reacts with available water to initiate expansion in the product to seal leaking cracks and joints in concrete and fill voids in generally inaccessible locations.

When Nitofill PU150 is mixed with equal parts water (w:w) it forms a cream within 29 seconds and a gel in 3 min 5 sec @ 25^{O}C.

Supply

Nitofill PU150: 20 kg pail

Notes

Corrosion control systems

Section summary

Notes

Galvashield XP Range

Embedded Galvanic Anode Units with 2G Technology™

Description

The Galvashield XP range of embedded galvanic anode units utilise an innovative zinc anode core design surrounded by an enhanced formulated cement-based mortar to provide corrosion mitigation to reinforced concrete structures. Once installed, the zinc anode corrodes preferentially to the adjacent reinforcing steel, thereby providing galvanic corrosion prevention or corrosion control.

Applications

- Mitigates incipient anode formation (halo effect) in patch repair
- Bridge widening and other structure modifications
- Slab replacements, expansion joint repairs and other interfaces between new and existing concrete
- Repair of prestressed and post-tensioned concrete
- Chloride contaminated or carbonated concrete
- Repair of structures with epoxy-coated rebar

Advantages

- Proven technology
- BarFit™ design
- Economical
- Versatile
- Low maintenance
- Long lasting - 10 to 20 year service life

Galvashield XP product range

Product Name	Anode Dimension (nominal)	Zinc Mass (g)
Galvashield XPT	25mm x 125mm x 25mm	60
Galvashield XP2	65mm x 80mm x 30mm	100
Galvashield XP4	65mm x 120mm x 30mm	160

Refer to Technical Data Sheet (TDS) for application guidelines.

Galvashield CC

Embedded galvanic sacrificial anode grid system for corrosion control and protection in, as yet, undamaged concrete

Uses

Controls corrosion in sound but chloride contaminated concrete. Galvashield CC embedded galvanic anode units are used to control on-going corrosion and to prevent the initiation of new corrosion activity in concrete structures.

Advantages

- Protects against chlorides and carbonation
- Quick and easy installation and requires no external power source
- Extends maintenance cycle
- Measurable performance, self regulating
- Suitable for pre-stressed / post tensioned structures
- Up to 20 years life

Description

Galvashield CC consists of a sacrificial zinc anode core that is activated by the surrounding specially formulated precast cementitious mortar. The cylindrical unit, available in a variety of standard sizes, is quickly and easily installed into concrete that is mechanically sound but has ongoing corrosion activity. Once installed, the zinc anode corrodes preferentially to the surrounding rebar, thereby providing galvanic corrosion control to the adjacent reinforcing steel.

The Galvashield CC unit is inserted into a pre-drilled hole and encapsulated within Renderoc HB40 or Fosroc Construction Grout.

Galvashield CC65 - Standard unit for use in areas of moderate steel density. Galvashield CC100 and CC135 - Larger units for use in areas of higher steel density.

Supply

Boxes of 20 units, complete with an accessory pack - including:

- 15.2 m of interconnecting wire
- 25 wire connectors

Refer to Technical Data Sheet (TDS) for application guidelines.

Galvashield LJ

Galvanic corrosion protection system for severe exposure concrete elements in tidal marine environments

Uses

Galvashield LJ is designed to reinstate and actively protect reinforced concrete / structural steel elements subject to the most severe exposure conditions. The system operates in the tidal zone, typically on columns and piles subject to wet-dry tidal cycling in marine environments.

Advantages

- 'All in one' repair and protection system
- No post installation maintenance required
- Proven technology with measured performance in aggressive environment
- Self powered and self regulating - no damaging over-protection
- Satisfies the 100mv polarisation criteria for effective 'cathodic' protection
- Longest life expectancy of any galvanic system
- Provides highly cost effective repair
- Quick, easy and low cost installation
- Fully compatible with selected Renderoc repair mortars

Description

Galvashield LJ is a galvanic protection system based upon the installation of prefabricated GRP jackets lined with expanded zinc mesh conforming to ASTM B69-92 for A190 alloy. The mesh is connected to the steel reinforcement to provide the required protective current to the steel.

Supply

Each Galvashield LJ assembly is custom made and supplied prefabricated ready to use, in accordance with prior dimensions received from the project.

Galvashield Fusion T2

Self powered dual phase hybrid anode series

Uses

- Multi-story Carparks
- Bridge Decks, Columns & Beams
- Marine Piers and Wharfs
- Balconies

Advantages

- Proven Technology - ICCP electrochemical treatment and alkali-activated galvanic anode technologies fused together into a single unit.
- Simple Installation - Galvashield Fusion T2 is a single unit hybrid system with no external power requirements.
- Fit & Forget - Galvashield Fusion T2 operates automatically once installed, reducing access requirements and therefore time and cost.
- Long Lasting - Provides corrosion protection for up to 30+ years without the need for maintenance.* Phase 1 can be designed to be repeated at any time if desired.
- Measurable Performance - While not critical for the long term operation of the system, the site performance can be measured and validated if required.

Description

Galvashield Fusion T2 is a second generation hybrid anode system used to control corrosion in reinforced concrete structures. Galvashield Fusion T2 is a Type 2 anode for embedment within drilled holes in sound concrete.

Galvashield Fusion T2 combines the high level performance of an impressed current electrochemical treatment system with the longterm maintenance-free capabilities of an alkali-activated galvanic cathodic prevention system. The single-unit system does not require complex wiring or an external DC power supply (temporary or permanent).

When installed, the inbuilt impressed current component provides an initial phase of high charge density that passivates active corrosion (Phase 1). Then, the anode automatically switches to a cathodic prevention phase, which maintains steel passivity and provides longterm, maintenance-free corrosion protection (Phase 2).

Supply

Refer to the Technical Data sheet for further details.

Galvanode DAS

Distributed anode for Corrosion Control and Cathodic Protection

Uses

- Bridge and marine structures
- Galvanic jackets for columns and piles
- Galvanic deck overlays
- Service life extension in severe service conditions
- Conventionally reinforced and prestressed/ post tensioned concrete

Advantages

- Proven technology - supported by independent test program

  High capacity - can provide more zinc and more current output than other galvanic anode systems
- Design flexibility - anode design and spacing can be customized to meet project performance requirements and service life objectives
- Versatile - can be used for both conventionally reinforced and prestressed or post-tensioned concrete
- User friendly - installation is quick and easy, requiring no specialized equipment
- Low maintenance - requires no external power source or system monitoring
- Measurable - system performance can be easily monitored if required
- Embedded system - provides more uniform performance, eliminates risk of vandalism
- Long lasting - 10 to 20 year service life* reduces the need for future repairs

Description

Galvanode DAS is a distributed anode system designed to provide corrosion control or cathodic protection to concrete decks, columns, beams and walls. Galvanode DAS galvanic anode system is distributed over concrete and masonry structures to provide global corrosion protection.

Supply

Refer to the Technical Data sheet for further details.

Ebonex

Discrete anodes for impressed current cathodic protection of reinforcement steel in concrete structures

Uses

Typical applications of Ebonex is for use on bridges, steel framed buildings, car parks, reinforced concrete in marine conditions.

Advantages

- Gas venting - no build-up of anodic gases and therefore can be installed under strengthening systems, membranes and coatings
- Discrete installation - no added dead weight loading or increase to physical dimensions of structure
- Long lasting - longest life expectancy of any discrete CP anode - in excess of 40 years, depending upon design
- Satisfies the 100mV criteria for effective cathodic protection
- Proven technology - field verified performance
- Cost competitive compared with other types of CP installations
- Deep installation - addresses multi-levels of steel in difficult access areas
- High operating current - suitable for use in areas of high steel density
- Versatile - can be used in new construction as a preventative measure
- Flexible - available in a wide number of sizes to provide maximum design fexibility

Description

Ebonex is a discrete Impressed Current Cathodic Protection (ICCP) anode, specifically designed to protect steel elements in concrete and some steel framed structures from corrosion. The anode utilises an innovative ceramic/titanium composite combined with an integral gas venting system. The system includes Ebofix grout, which is a high density, acid buffering grout used for long-term performance.

Supply

Refer to the Technical Data sheet for further details.

Refer to Technical Data Sheet (TDS) for application guidelines.

Grouts

Section summary

Cementitious grouts

Refer to Technical Data Sheet (TDS) for application guidelines.

Grouts

Section summary

Epoxy resin grouts

Refer to Technical Data Sheet (TDS) for application guidelines.

Construction Grout

Economical, shrinkage compensated grout - (gaps 10 mm to 100 mm thickness)

Uses

Construction Grout is used for general purpose grouting when completely filling concrete voids or grouting between a base plate and a substrate e.g. the grouting of a stanchion base plate.

Advantages

- Gaseous expansion system compensates for shrinkage and settlement in the plastic state
- High ultimate strength and low permeability ensure the durability of the hardened grout
- Can be dry packed, rammed, trowelled, poured and pumped
- No metallic iron content to cause staining
- Prepackaged material overcomes potential on-site batching variations

Description

A general purpose shrinkage compensated cementitious grout, is supplied as a ready to use dry powder. The addition of a controlled amount of clean water produces a flowing grout for gap thicknesses up to 100 mm.

Construction Grout is a blend of Portland cement, graded fillers and chemical additives which impart controlled expansion in the plastic state whilst minimising water demand. The low water demand ensures high early strength. The graded filler is designed to assist uniform mixing and produce a consistent grout.

Maximum aggregate size for pumping is 0.3 mm.

Consistency	Yield (litres)	Typical 28 day strength (MPa)
Stiff	10.00	65
Plastic	10.40	57
Flowable	10.80	53
Fluid	10.90	50

Supply

20 kg bag

Refer to Technical Data Sheet (TDS) for application guidelines.

Conbextra GP

General purpose, high flow, shrinkage compensated grout - (gaps 10 mm to 100 mm thickness)

Uses

Conbextra GP is used for general purpose grouting where it is essential to eliminate shrinkage when completely filling voids or grouting between a base plate and substrate, e.g. grouting of a stanchion base plate. It can be used for anchoring a range of fixings such as masts and anchor bolts.

Advantages

- High ultimate strength and low permeability ensure the durability of the hardened grout
- Gaseous expansion system compensates for shrinkage and settlement in the plastic state
- Can be dry packed, rammed, trowelled, poured and pumped
- Pre-packaged material overcomes potential on-site mixing variations
- Develops high early strength without the use of chlorides
- No metallic iron content to cause staining

Description

Conbextra GP, a general purpose shrinkage compensated cementitious grout, is supplied as a ready to use dry powder. The addition of a controlled amount of clean water produces a flowing non-shrink grout for gap thicknesses from 10 mm up to 100 mm.

Conbextra GP is a blend of Portland cement, graded fillers and chemical additives which impart controlled expansion in the plastic state whilst minimising water demand. Low water demand ensures high early strength and graded filler designed to assist uniform mixing and produce a consistent grout.

Maximum aggregate size for pumping is 1.2 mm.

Consitency	Yield (litres)	Typical 28 days strength (MPa)
Stiff	10.60	75
Plastic	10.70	70
Flowable	10.80	65
Fluid	10.90	60

Supply

20 kg bag

Refer to Technical Data Sheet (TDS) for application guidelines.

Conbextra C

General purpose, flowable, dual shrinkage compensated cementitious grout - (gaps 10 mm to 100 mm thickness)

Uses

Conbextra C is a Class A and C, dual shrinkage compensated, cement based grout used for general purpose grouting where it is essential to eliminate shrinkage when completely filling the void between a base plate and a substrate.

Advantages

- Dual expansion system compensates for shrinkage in both the plastic and hardened states
- High ultimate strength and low permeability ensure the durability of the hardened grout
- Can be dry packed / rammed, trowelled, flowed and pumped
- Hydrogen free gas expansion - minimises embrittlement
- Prepackaged material overcomes potential on-site mixing variations
- No metallic iron content to cause rusting

Description

General purpose shrinkage compensated cementitious grout, is supplied as a ready to use dry powder. The addition of a controlled amount of clean water produces a flowing shrinkage compensated grout for gap thicknesses from 10 mm up to 100 mm.

Conbextra C is a blend of Portland cement, specially graded fillers and additives which impart controlled expansion in the plastic and hardened state whilst minimising water demand. The low water demand ensures high early strength. The graded filler is designed to assist uniform mixing and produce a consistent, flowable grout.

Maximum aggregate size for pumping is 0.3 mm.

Consistency	Yield (litres)	Typical 28 days strength (MPa)
Stiff	10.40	70
Plastic	10.70	60
Flowable	10.80	55
Fluid	10.90	50

Supply

20 kg bag

Note: Supplied in 25 kg bags in New Zealand - refer to separate Data sheet for Yield and other details.

Conbextra HF

High fluid flow, dual shrinkage compensated, precision grout - (gaps 10 mm to 125 mm thickness)

Uses

Conbextra HF is a dual shrinkage compensated grout used for free flow precision grouting in a wide range of applications. These critical uses include heavy duty support beneath machine base plates and bridge bearings.

Advantages

- Non-metallic dual expansion system compensates for shrinkage in both the plastic and hardened states
- Excellent initial flow and flow retention - for large and small grout pours
- Rapid strength gain facilitates efficient installation and operation of plant
- High ultimate strength and low permeability ensure durability of the hardened grout
- Hydrogen-free gaseous expansion, chloride free
- Suitable for pumping or pouring over a large range of application consistencies and temperatures

Description

Conbextra HF, dual shrinkage compensated cementitious precision grout, is supplied as a ready to use dry powder. The addition of a controlled amount of clean water produces a free-flowing precision grout for gap thicknesses up to 125 mm. The low water requirement ensures high early strength and long-term durability.

Conbextra HF is a blend of Portland cement, graded fillers and chemical additives which impart controlled expansion in both the plastic and hardened states. The filler grading minimises segregation and bleeding over a wide range of application consistencies.

Maximum aggregate size for pumping is 2.5 mm.

Consistency	Yield (litres)	Typical 28 days strength (MPa)
Stiff	10.40	74
Plastic	10.70	64
Flowable	10.80	62
Fluid	10.90	60

Supply

20kg bag

Refer to Technical Data Sheet (TDS) for application guidelines.

Conbextra HS

Ultra high strength, high flow, dual shrinkage compensated precision grout - (gaps 10 mm to 125 mm thickness)

Uses

Used for free flow precision grouting in a wide range of applications. These include heavy duty support beneath machine base plates and bridge bearings.

Advantages

- Unique non-metallic dual expansion system compensates for shrinkage in both the plastic and hardened states
- Excellent initial flow / flow retention suitable for large or small grout pours
- Rapid strength gain facilitates efficient installation and operation of plant
- High ultimate strength and low permeability ensure durability of grout
- Hydrogen-free gaseous expansion
- Chloride free
- Suitable for pumping or pouring over a large range of applications

Description

Supplied as a ready to use dry powder. The addition of a controlled amount of clean water produces a free-flowing precision grout for gap thicknesses up to 125 mm. In addition the low water requirement ensures high early strength and long term durability.

Typical 28 day strength: >80 MPa

Conbextra HS is a blend of Portland cements, graded fillers and chemical additives which impart controlled expansion in both the plastic and hardened states. The filler grading minimises segregation and bleeding over a wide range of application consistencies.

Maximum aggregate size for pumping is 1.0 mm.

Consitency	Yield (litres)	Typical 28 days strength (MPa)
Flowable	9.8	95
Fluid	10.1	80

Supply

20 kg bag

Conbextra HES

High early strength, rapid setting, flowable, cementitious precision grout - (gaps 15 mm to 150 mm thickness)

Uses

Conbextra HES is a Class C grout used for free flow grouting in a wide range of applications where rapid strength gain is a pre-requisite.

Advantages

- Rapid strength gain facilitates rapid installation and operation of plant within a matter of hours
- High strength gain is achievable even at low temperatures
- Excellent initial flow and flow retention
- Compensates for shrinkage in hardened state
- High ultimate strength and low permeability ensure durability of the hardened grout
- Chloride free
- Suitable for pumping or pouring over a large range of application consistencies and temperatures

Description

Conbextra HES, rapid set high strength cementitious precision grout, is supplied as a ready to use powder. The addition of a controlled amount of clean water produces a free-flowing grout for gap thicknesses of 15 - 150 mm. In addition the low water requirement ensures high early strength and long term durability.

Conbextra HES is a blend of cements, graded aggregates and additives which impart controlled expansion in hardened state. The aggregate grading minimises segregation and bleeding over a wide range of application consistencies.

Maximum aggregate size for pumping is 5.0 mm.

Consistency	Yield (litres)	Typical strength at flowable
Plastic	10.00	2 hours : 25 (MPa)
Flowable	10.20	8 hours : 35 (MPa)
		1 day : 37 (MPa)
		28 days : 50 (MPa)

Supply:

20kg bag

Refer to Technical Data Sheet (TDS) for application guidelines.

Conbextra Deep Pour

Flowable, precision cementitious grout for high volume and deep pours - (gaps 20 mm to 500 mm thickness)

Uses

Conbextra Deep Pour is a Class A and C free flow precision grout for grouting gap applications ranging from 20 mm up to a maximum of 500 mm deep. Conbextra Deep Pour is formulated to minimise segregation and bleeding for deep grout pours.

Advantages

- Non-metallic dual expansion system compensates for shrinkage in both the plastic and hardened states
- Excellent initial flow and flow retention
- High ultimate strength and low permeability ensure durability of the hardened grout
- Hydrogen-free gaseous expansion
- Chloride free
- Suitable for pumping or pouring over a large range of application consistencies and temperatures

Description

Conbextra Deep Pour, shrinkage compensated cementitious precision grout, is supplied as a ready to use dry powder. The addition of a controlled amount of clean water produces a free-flowing precision grout for gap thicknesses up to 500 mm. In addition the low water requirement ensures high early strength and long term durability.

Conbextra Deep Pour is a blend of Portland cement, graded fillers and chemical additives which impart controlled expansion in both the plastic and hardened states. The filler grading minimises segregation and bleeding over a wide range of application consistencies.

Maximum filler aggregate size contained in Conbextra Deep Pour is 5.0 mm.

Consistency	Yield (litres)	Typical 28 days strength (MPa)
Flowable	10.00	60

Supply:

20kg bag

Conbextra UW

Formulated anti-wash out specialist grout for underwater grouting applications

Uses

Conbextra UW is used for free flow or pumped grouting applications underwater or in tidal zones. There will be no significant 'wash-out' of the cement phase. Applications include bridge columns, quay pillars, concrete piling, slipways and dams.

Advantages

- No risk of significant 'wash-out' of cement phase when placed underwater
- Displaces water effectively
- Gaseous expansion system compensates for shrinkage and settlement in the plastic state
- High early and ultimate strength and exceptional resistance to freeze-thaw cycling ensure durability of the hardened grout
- Chloride free
- Pre-packaged needing only on-site addition of water

Description

Conbextra UW is supplied as a ready to use powder. The addition of a controlled amount of clean water produces a free flowing grout. The grout exhibits exceptional resistance to 'washing-out' of the cement phase when placed in stationary or moving water.

Conbextra UW is a blend of cement, graded fine aggregate and chemical additives which impart controlled expansion, water reduction and non wash-out characteristics. The aggregate grading minimises segregation and bleeding whilst assisting the flow characteristics.

Typical 28 day strength is 50 MPa.

Maximum aggregate size for pumping is 0.3 mm.

Supply

20 kg bag

Yield

11.6 litres per 20kg bag

Refer to Technical Data Sheet (TDS) for application guidelines.

Conbextra CB

Highly flowable high strength grout for cable bolt grouting applications

Uses

Conbextra CB is a highly flowable high strength grout which can be used for various void fill applications including, backfilling behind concrete tunnel segments, bottom up cable bolt grouting applications and general civil applications.

Advantages

- High strength development allows early tensioning of cables
- Gaseous expansion system compensates for shrinkage in the plastic state
- Develops early high strength without the use of chlorides
- Excellent pumpability over both flowable and thixotropic consistencies

Description

Conbextra CB, a non shrink cable bolting grout is supplied as a ready to use dry powder. The addition of a controlled amount of clean water and mechanical mixing in a high shear grout mixer is required to produce a grout to the desired consistency.

Properties		Result		
	Water Addition	3.85L	4.35L	4.75L
Compressive Strength MPa AS 1478.2 2005	1 day 7 days 28 days	50 75 100	30 65 85	25 55 75
Fresh Wet Density	2100kg /m³			
Pumping Life	120 mins			
Set Time	7.5 hrs			

Supply

20 kg bag (Made to Order product)

Yield

9 to10 litres per 15kg bag depending on consitency used.

Renderoc BB

High strength, low shrinkage mortar for the installation of elastomeric bridge bearings

Uses

Renderoc BB exhibits a series of performance characteristics which make it ideal for use as a bearing mortar for the installation of elastomeric bridge bearings.

Advantages

- Rapid strength gain
- Contains sufficient coarse aggregate to provide a rough finish on the surface supporting the bearing
- Uses shrinkage limited cement conforming to AS3972 and RTA 3211s
- Aggregate grading in accordance with RTA B80 table B80.3
- No plastic or dry state expansive admixtures
- Aggregate classified as non-reactive when tested for AAR by accelerated mortar bar test in accordance with RTA T363
- Drying shrinkage meets requirements of RTA B80 table B80.7

Description

Renderoc BB concrete reinstatement mortar is supplied as a ready to use blend of dry powders which requires only the site addition of clean water to produce a mortar. It is based on Portland cements, graded aggregates and chemical additives which provide a mortar with good handling characteristics while minimising water demand. The low water requirement ensures good strength gain and long-term durability.

Supply

20 kg bag

Yield

Approx. 10 litres per 20 kg bag

Refer to Technical Data Sheet (TDS) for application guidelines.

Alofix-MC

Ultra-superfine, economical, injection cementitious grout, for stabilising and strengthening soil / sand substrates

Uses

Alofix-MC is an inorganic grouting material composed of ultra-superfine particles, and as a grout has excellent permeability, strength and durability. It is suitable for sealing and/or stabilising sandy soil foundations, and especially for grouting soils for permanent structures such as foundations, tunnels, dams, oil tanks etc.

Advantages

- No soil polluting properties - consists entirely of inorganic materials ensuring no pollution of underground water or soil
- Remarkable penetrating abilities - average particle size of Alofix-MC is 4 microns with a grain size distribution finer than 12 microns. Specific Surface Blaine fineness of 8150 cm^2 / g enables penetration comparable to chemical grouts
- High hardened strength - the ultra fine grains of the Alofix-MC are chemically activated, so that curing provides rapid hardening to a high strength. This initial hardening is followed by further hardening during an extended period
- Excellent durability - after hardening by hydration, Alofix-MC acquires impermeability, which protects it from underground and sea water
- Easy handling - with its strong dispersive quality, Alofix-MC is highly resistant to separation and sedimentation, which provides protection against damage for the injection equipment, and prevents obstruction of pipework
- Fast set time - the set time of Alofix-MC is generally between 4 - 8 hours

Description

Alofix-MC, ultra-superfine cementitious soil stabilisation grout is supplied as a ready to use dry powder. MC helper improves the ease of use, viscosity, permeation and strength of the grout. With the addition of MC Helper, a dispersing agent, and clean water, Alofix-MC is a highly permeable grout, suitable for low pressure injection into sandy soil to produce solid foundations.

Supply

20 kg bag

Yield/Coverage

Refer to Product Data Sheet

Conbextra EP10

A highly fluid epoxy grout for dynamic/repetitive load applications gap width between 0.25-10mm

Uses

Conbextra EP10 is a low viscocity epoxy grout for situations where heavy dynamic or mobile loads are encountered. It is ideal for grouting in small gaps between a base plate and substrate which needs filling and the structural load be uniformly distributed. Typical applications are reciprocating machinery, testing equipment, heavy crane and transporter rails, high speed turbines, centrifuges and drop forges.

Also for use in conditions where chemical spillage may be encountered. Typical situations could be met in steelworks, refineries, electroplating works and chemical plants. Due to the low viscocity of Conbextra EP10 it can be used to fill hairline cracks in concrete slabs from 0.25mm and upwards on horizontal surfaces using a gravity fed method.

Advantages

- High compressive, tensile and flexural strengths
- Resistant to repetitive dynamic loads
- Fast, convenient installation withearly strength gain
- Withstands a wide range of chemicals
- Minimal shrinkage ensures surface contact and bond
- Low creep characteristics under sustained loading

Description

Conbextra EP10 for grouting gaps ranging from 0.25 mm - 10 mm. It is an all liquid system consisting of a base and hardener.

Supply

300 ml and 1.5 litre (2 component pack)

Refer to Technical Data Sheet (TDS) for application guidelines.

Conbextra EP65 Plus

Ultra high strength epoxy grout for dynamic/repetitive load applications

Uses

Conbextra EP65 Plus is for use in situations where heavy dynamic or mobile loads are encountered. The gap between a base plate and substrate needs to be filled and the structural load be uniformly distributed, in such applications as reciprocating machinery, testing equipment, heavy crane and transporter rails, high speed turbines, centrifuges and drop forges.

Also for use in conditions where chemical spillage may be encountered. Typical situations could be met in steelworks, refineries, electroplating works and chemical plants.

Advantages

- High compressive, up to 125 MPa
- High tensile and flexural strengths
- Resistant to repetitive dynamic loads
- Fast, convenient installation withearly strength gain
- Withstands a wide range of chemicals
- Minimal shrinkage ensures surface contact and bond
- Low creep characteristics under sustained loading

Description

Conbextra EP65 Plus is an epoxy resin based product designed for free-flow grouting of gaps from 10 to 100mm.

Supply

14 litre (2 component pack)

Conbextra EP120

A high performance two part epoxy grout for dynamic/repetitive load applications suitable for large volume pours

Uses

Conbextra EP120 is for use in situations where heavy dynamic or mobile loads are encountered. The gap between a base plate and substrate needs to be filled and the structural load be uniformly distributed. Applications include reciprocating machinery, testing equipment, heavy crane and transporter rails, high speed turbines, centrifuges and drop forges. Also for use in conditions where chemical spillage may be encountered. Typical situations could be met in steelworks, refineries, electroplating works and chemical plants.

Conbextra EP120 is especially suitable where long working time and/or low exotherm properties are required e.g. for large pours or high ambient temperatures. It can also be used for grouting wide gap ranges making it a versatile product for a number of applications.

Advantages

- High compressive >80 MPa @ 28 days
- High tensile and flexural strengths
- Resistant to repetitive dynamic loads
- Fast, convenient installation
- Withstands a wide range of chemicals
- Virtually no shrinkage and hence ensures complete surface contact and bond
- Low creep characteristics under sustained loading
- Excellent flow properties
- Two part material giving a better quality control during mixing
- Can be used installed at high temperatures

Description

Conbextra EP120 is unique two part epoxy grout formulation which does not require any additional aggregate to be added. Designed for free-flow grouting of gaps from 10 to 120mm.

Supply

14 litre (2 component pack)

Refer to Technical Data Sheet (TDS) for application guidelines.

Conbextra EP300 DP

Low exotherm three part epoxy resin grout suitable for large volume pours

Uses

Conbextra EP300 DP is for use in applications where heavy dynamic or mobile loads are encountered. Particularly well suited to applications where long working time and/or large volume grouting is required.

Conbextra EP300 DP is also used to encapsulate piletops and ensure water tightness. The applied product is continuously bonded to the pile surface and prevents water seepage either through capillaries or along the reinforcement path.

Advantages

- High compressive, tensile and flexural strengths
- Resistant to repetitive dynamic loads
- Fast, convenient installation
- Withstands a wide range of chemicals
- Virtually no shrinkage and hence ensures complete surface contact and bond
- Low creep characteristics under sustained loading
- Excellent flow properties
- Can be used installed at high temperatures
- Suitable for gaps 10mm to 300mm

Description

Conbextra EP300 DP is especially suitable where long working time and/or low exotherm properties are required e.g. for large pours or high ambient temperatures. It can also be used for grouting wide gap ranges making it a versatile product for a number of applications.

Typical 28 day compressive strength 90 MPa.

Supply

11.4 litre (3 component pack)

Conbextra EP935

A free flowing, water displacing epoxy grout for underwater grouting applications

Uses

Free flowing grout where the mechanical properties of the hardened grout must be of the highest order. Conbextra EP935 is suitable for underwater grouting work and for the repair of water immersed concrete structures.

Advantages

- Excellent adhesion to water immersed concrete, masonry or brick surfaces
- High density ensures complete water displacement
- High compressive, tensile and flexural strengths
- Cures with negligible shrinkage
- Pre-measured components allow easy mixing, and free flowing properties ensure speed of application

Description

Conbextra EP935 is a two component, finely filled, low viscosity, epoxy resin grout. Its high density displaces water to enable high performance underwater applications in thicknesses from 12 - 30 mm.

The components of Conbextra EP935 are supplied in the correct mix proportions designed for whole pack mixing so that flow and mechanical properties are consistant.

Supply

15 kg (2 component pack)

Refer to Technical Data Sheet (TDS) for application guidelines.

Conbextra Grout Aggregate

Graded round aggregate for adding to grout mixes

Uses

Conbextra Grout Aggregate can be added to cementitious and epoxy grouts. The addition of aggregate reduces exothermic heat development enabling increased pour sizes.

Advantages

- Increased yield
- Increased pour sizes
- Economical
- Minimizes reduction in flow and strength of grouts

Description

A graded and rounded dry aggregate that is specifically selected to be added to both Conbextra cementitious and epoxy grouts.

Maximum Aggregate size - 5mm.

Typical yield increase is approximately 4 litres per 10kg of aggregate added.

Supply

20 kg bag

Notes

Refer to Technical Data Sheet (TDS) for application guidelines.

Protective Coatings

Section summary

Refer to Technical Data Sheet (TDS) for application guidelines.

Notes

Refer to Technical Data Sheet (TDS) for application guidelines.

Dekguard Elastic

Crack-accommodating elastomeric, pigmented acrylic, chloride ion and carbonation protective coating for concrete and masonry

Uses

To protect atmospherically exposed reinforced concrete structures from attack by acid gases, chloride ions, oxygen and water, especially where there are cracks within the substrate. Dekguard Elastic is suitable for use on all types of structures, including those in coastal environments. It is equally suitable for new and existing structures.

Advantages

- Can accommodate substrate cracking and cyclic movement of cracks
- True elastomeric coating with excellent elongation and recovery properties
- Excellent barrier to carbon dioxide, chloride ions, oxygen and water
- Special acrylic polymer minimises dirt retention
- Allows water vapour to escape from the structure
- UV-resistant / high resistance to effects of long-term weathering
- Wide range of decorative colours

Description

The Dekguard Elastic system comprises a single component penetrating silane-siloxane primer and a single component elastomeric pigmented coating, both ready for immediate site use.

The film-forming, stabilising primer (Nitoprime DG) is reactive and capable of producing a chemically-bound hydrophobic barrier, thus inhibiting the passage of water and water-borne contaminants. A thin surface film is produced which consolidates and stabilises porous substrates.

Dekguard Elastic is an elastomeric, water based protective coating based on a special acrylic polymer. It provides excellent elongation and recovery, low dirt pick-up, resistance to aggressive elements, UV light and rain.

Supply

15 litre drum

Coverage

2.5 m^2 per litre per coat (2 coats required)

Dekguard E2000

Elastomeric, pigmented acrylic, chloride ion and carbonation protective and decorative coating for concrete and masonry

Uses

To protect atmospherically exposed reinforced concrete structures from attack by acid gases, chloride ions, oxygen and water, especially where there are cracks within substrate. Dekguard E2000 is suitable for use on all types of structures, including those in coastal environments, and new or existing structures.

Advantages

- Single coat application after priming
- Can accommodate substrate cracking and cyclic movement of cracks
- Excellent elongation and recovery properties
- Excellent barrier to carbon dioxide, chloride ions, oxygen and water
- Special acrylic polymer minimises dirt retention
- Allows water vapour to escape from the structure
- UV-resistant / high resistance to effects of long-term weathering
- Wide range of decorative colours

Description

The Dekguard E2000 system comprises a single component penetrating silane-siloxane primer and a single component elastomeric pigmented coating, both ready for immediate site use.

The film-forming, stabilising primer (Nitoprime DG) is reactive and capable of producing a chemically-bound hydrophobic barrier, thus inhibiting the passage of water and water-borne contaminants. A thin surface film is produced which consolidates and stabilises porous substrates.

Dekguard E2000 is a crack-accommodating, water based protective coating based on a special acrylic polymer. It provides excellent elongation and recovery, low dirt pick-up, resistance to aggressive elements, UV light and rain.

Supply

15 litre drum

Coverage

5.0 m^2 per litre per coat (two coats)

Refer to Technical Data Sheet (TDS) for application guidelines.

Dekguard Clear

Clear protective coating system for exposed concrete and masonry

Uses

A protective and weather-resistant system designed to protect new and existing concrete and masonry structures from attack by water, chlorides, sulphates, carbon dioxide and other acid gases. It can be used on a wide variety of structures and buildings, including high-rise flats, car parks, commercial and industrial buildings, subways, underpasses and bridges.

Advantages

- Highly resistant to weathering
- Excellent barrier to chloride ingress
- Breathability allows water vapour to escape from structure
- Excellent barrier to carbon dioxide and other atmospheric acid gases

Description

The Dekguard Clear protective coating system comprises a single component, penetrating silane-siloxane primer and a single component clear coating, both ready for immediate site use.

The primer (Dekguard Primer) is supplied as a clear liquid and is based on a silane-siloxane dissolved in a penetrating organic carrier. The primer is reactive and capable of producing a chemically-bound hydrophobic pore lining, thus inhibiting the passage of water and water-borne contaminants.

Dekguard Clear is a solvent based clear methacrylate coating, which will provide resistance to aggressive corrosion elements, weathering and rain. A major feature of the system is its ability to allow water vapour to escape from the structure.

The Dekguard Clear coating system provides a satin finish. Its application may tend to slightly darken (wet) the finished appearance of the substrate.

Supply

20 litre drum

Coverage

7 m^2 per litre per coat (min. 2 coats recommended)

Nitocote SN502

Economical, penetrating hydrophobic silane-siloxane, clear treatment for masonry and concrete

Uses

To protect atmospherically exposed reinforced concrete structures from attack by chloride ions and water intrusion. Nitocote SN502 is also suitable to protect other cementitious substrates and masonry. Nitocote SN502 is suitable for use on all types of structures, including those in coastal environments. It is equally suitable for new and existing structures.

Advantages

- Reduces water and chloride intrusion
- Penetrates into porous substrates
- Non-staining
- Allows water vapour to escape from the structure
- Increases freeze thaw resistance
- Chemically resistant to ice melting compounds, fuels, oils and atmospheric contaminants

Description

Nitocote SN502 is a single-component penetrating silane-siloxane system which penetrates into porous substrates and then reacts to produce a bonded hydrophobic lining to the pores. It significantly reduces the absorption of water and water borne salts, whilst allowing the passage of water vapour out from the substrate.

Nitocote SN502 does not discolour the substrate and has excellent resistance to weathering.

Supply

20 litre drum

Coverage

5 m^2 per litre per coat (2 coats recommended)

Refer to Technical Data Sheet (TDS) for application guidelines.

Nitocote SN508 Creme

(Previously known as Emer-Stop Creme)

Deeply impregnating, water dispersed, thixotropic creme, water repellant and chloride ion protective clear treatment for concrete

Uses

A penetrating, thixotropic cream designed to protect concrete and masonry from both water and chloride ingress. Nitocote SN508 Creme is particularly useful for impregnating the exposed surfaces of reinforced concrete used in bridges, wharves, roads, on all atmospherically exposed concrete buildings and structures.

Advantages

- Outstanding penetration
- Significant reduction in capillary water absorption
- Low volatility, no application wastage
- Allows water vapour transmission
- Thixotropic, can be applied in windy / elevated temperature conditions, even to vertical and soffit applications
- Easy to supervise; clearly visible applied material, easily measured material thickness
- Water based, solvent free, environmentally friendly

Description

Nitocote SN508 Crème is a thixotropic, water dispersed emulsion of iso-octyltriethylsilane for use as a penetrating water repellent treatment for concrete. Being a reactive silicone based product, it chemically bonds with concrete and masonry substrates and becomes invisible once dry. Its penetration and subsequent chemical reaction with the concrete allow it to provide long term protection for concrete by significantly reducing the ingress of liquid water and any dissolved salts that the water may carry. The high concentration of active ingredient (> 80%) is unique among other emulsion type silanes.

Supply

30 and 200 litre drums

Coverage

0.25 - 0.44 litres per m^2 per coat
4.00 - 2.25 m^2 per litre per coat

Nitocote SN511

(Previously known as Emer-Stop S100N)

Deeply impregnating, iso-butyltriethoxy silane, clear liquid, water repellant and chloride ion protective treatment for concrete

Uses

A deeply penetrating treatment designed to protect concrete from both water and chloride ingress whilst still permitting water vapour transmission out of the structure. Nitocote SN511 is especially suitable for protecting concrete structures in marine and coastal environments.

Advantages

- Reduces water and chloride ingress
- Deep penetration into substrates
- Allows water vapour to escape from the structure
- Exceptional alkali resistance
- Minimises efflorescence
- Chemically resistant to ice melting compounds, fuels, oils and atmospheric contaminants

Description

Nitocote SN511 is a low viscosity colourless neutral liquid. It has a >98% active content of monomeric isobutyltriethoxy silane which, due to it's low rate of hydrolysis, penetrates deeply into porous substrates, reacting to produce a bonded hydrophobic lining to the pores.

This treatment markedly reduces absorption of water and water-borne salts, but still permits passage of water vapour gas out of the structure.

The treatment is not affected by UV light and does not produce any discolouration of the substrate.

Supply

20 and 200 litre drums

Coverage

300 ml per m^2 per coat (2 coats recommended)
3.33 m^2 per litre per coat (2 coats recommended)

Refer to Technical Data Sheet (TDS) for application guidelines.

Nitocote EP405

Solvent free, epoxy resin coating system for potable water retaining structures on concrete and steel

Uses

For lining and waterproofing potable water retaining structures and surfaces subject to contact with potable water. The cured film is corrosion, chemical and abrasion resistant and is suitable for application to reservoirs, tanks, silos, water treatment works, breweries, dairies, meat and food processing plants. The cured film is non toxic and meets the requirements of AS 4020.

Advantages

- High build application
- Suitable for use in confined areas
- Can be applied directly to mild steel and concrete
- Smooth, glossy, easy to clean surface
- Corrosion, chemical and abrasion resistant
- Can be applied to damp surfaces
- Complies to AS 4020

Description

Nitocote EP405, a coating for potable water retaining structures, is a two pack, solvent free, epoxy resin material. It is supplied in pre-measured quantities ready for site mixing and use. The material cures to provide a smooth, hygienic and tough finish which is suitable for contact with potable water and foodstuffs. It is available in blue and white.

Supply

8 litre pack

Coverage

5 m^2 per litre per coat (2 coats recommended)

Nitocote EP410

Highly chemical resistant, solvent free, epoxy coating system for concrete and steel applications

Uses

To provide protection to concrete and steel structures in aggressive chemical exposure or immersion conditions. The material is particularly suitable for applications in process plants and sewage works.

Advantages

- Excellent chemical resistance
- Excellent adhesion and film build to SSD concrete and steel
- Excellent abrasion resistance
- Easily applied by roller or airless spray

Description

Nitocote EP410 is a high build, solvent free, two pack epoxy formulation. It is supplied in pre-measured quantities ready for site mixing and use. Nitocote EP410 is grey in colour. White is also available - minimum order requirement apply.

Supply

8 litre pack

Coverage

6.0 - 6.5 m^2 per litre per coat (2 coats required)

Refer to Technical Data Sheet (TDS) for application guidelines.

Nitocote EP500

Spray-applied, trowel finished, high build, chemical and abrasion resistant epoxy liner system (2 mm to 5 mm thickness)

Uses

A sprayable epoxy mortar with maximum chemical and abrasion resistance for the protection of concrete and similar substrates. Nitocote EP500 is simple and cost effective for overhead, vertical and horizontal resurfacing lining to both dry and damp (SSD) surfaces. The low odour, non-sag, and chemical resistant properties make it the ideal material for long lasting manhole wall rehabilitation, lining of large diameter pipes, and sewers.

Advantages

- Resistant to a wide range of acids, alkalis and industrial chemicals
- Resistant to biological attack
- Superior chemical and physical bond to substrates, dry or damp (SSD)
- No need for priming concrete surfaces, therefore cutting labour costs and reducing risk of bad priming
- Prepacked for ease of mixing
- 100% solids content - contains no solvent
- Strengths in excess of most concrete substrates to which material is applied. Excellent resistance to abrasion and impact
- Cured material provides a long lasting waterproof barrier
- Unaffected by freeze-thaw attack

Description

Nitocote EP500 is a solvent free, two component system consisting of epoxy resins and chemicals, incorporating a special blend of chemical resistant fillers. The two components increase their gel structure upon mixing, and thereby form a superior chemical and abrasion resistant lining material with no sagging of the gelled product.

Supply

16 litre pack

Coverage

8.0 m^2 per 16 litre pack at 2 mm thick

Notes

Refer to Technical Data Sheet (TDS) for application guidelines.

Flooring

Section summary

Concrete Floor Hardeners

Cementitious Floor Underlayments

Trafficable Cementitious Floor Surfacing

Flooring

Section summary

Floor Coatings

Concrete Floor Screeds

Refer to Technical Data Sheet (TDS) for application guidelines.

Nitoflor Sicaltop

Floor hardener, silicon carbide / alumina additive - dry shake on

Uses

Provides a non-rusting, extremely hard wearing, abrasion and slip resistant surface to new concrete floors. Applied by shake-on method it is ideally suited for all industrial areas subject to the heaviest traffic, e.g. loading bays, trucking lanes, car parks, warehouse floors, repair workshops, machine shops, etc.

Advantages

- Extremely strong, hard wearing, abrasion and impact resistant surface
- Forms a monolithic bond with the base concrete
- Contains silicon carbide to provide excellent slip resistant properties - slip resistance increases with use
- Resistant to oils and greases
- Non-metallic, chemically inert aggregate - will not rust
- Available in a range of colours to improve working environment

Description

A quality controlled, factory blended powder which is ready to use on-site. It consists of selected and graded silicon carbide and alumina based aggregates, Portland cement and special additives to improve workability.

The formulation provides a flooring compound which is easy to trowel into the surface of a fresh, wet concrete slab.

Silicon carbide and alumina based aggregates are extremely hard, chemically inert aggregates which resists polishing, therefore providing a slip and skid resistant surface even when wet.

Supply

20 kg bag

Coverage

Traffic conditions	Coverage m^2 / 20kg
Light Traffic	10.0
Medium Traffic	6.7
Heavy Traffic	5.0

Nitoflor HD

(Previously known as Durafloor HD)

Liquid floor hardener / densifier / dustproofer - clear

Uses

Nitoflor HD can be used on any new or existing internal concrete or masonry surface. Typical applications include;

- Retail
- Manufacturing facilities
- Warehouses
- Restaurants
- Grocery stores

Advantages

- Hardens
- Dustproofs
- Durable
- Stain resistant

Description

Nitoflor HD hardens, densifies, seals, and dustproofs the surface, as well as, providing superior stain resistance. The finished floor will have a clear and defined sheen. Nitoflor HD combines durability with long lasting aesthetics. It is an excellent application for new or existing concrete, natural or pigmented. This environmentally friendly system is easy to clean and maintain. Nitoflor HD is advanced technology in the polished concrete market.

Supply

5, 20, 200 litre drums

Coverage

Apply Nitoflor HD at approximately 7 - 10 m^2 per litre depending on surface porosity

Refer to Technical Data Sheet (TDS) for application guidelines.

Nitoflor HD-S System

(Previously known as Durafloor HD-S)

Liquid floor hardener / densifier / stain resistant / sheen sealer

Uses

Nitoflor HD-S System can be used on any new or existing internal concrete or masonry surface. Typical applications include;

- Manufacturing facilities
- Warehouse floors
- Restaurants & retail environments
- Supermarkets and grocery stores
- Storage facilities

Advantages

- Hardens and dustproofs
- Defined sheen levels
- Durable and stain resistant

Description

Nitoflor HD-S System hardens, densifies, seals, and dustproofs the surface, as well as, providing superior stain resistance. The finished floor will have a clear and defined sheen. It is an excellent application for new or existing concrete, natural or pigmented. This environmentally friendly system is easy to clean and maintain.

The Nitoflor HD-S System is a two component system involving Nitoflor HD and Nitoflor HD-S. Nitoflor HD can be applied without the Nitoflor HD-S application to provide a floor with similar abrasion resistance but with reduced stain resistance and sheen level to that of the full Nitoflor HD-S System.

Supply

5 and 20 litre drums

Coverage

Apply Nitoflor HD at approximately 7 - 10 m^2/litre depending on surface porosity. Apply Nitoflor HD-S at approximately 30 - 40 m^2/litre/coat depending on surface porosity and sheen reqired. Multiple coats may be required.

Cemtop GP Advanced

High performance floor underlay, self smoothing, levelling mortar for carpet / tiles (2-50 mm thickness)

Uses

Cemtop GP Advanced is designed as a heavy duty underlay which forms a smooth, hard surface for a variety of floor finishes including carpet and ceramic tiles.

Cemtop GP Advanced may, depending on the end use of the floor, be used in conjunction with high build epoxy resin based systems such as Nitoflor SL (refer separate Technical Data Sheet).

Cemtop GP Advanced can be used in residential, commercial and light industrial applications and is suitable for both new construction and refurbishment projects.

Advantages

- Specifically formulated for fast and easy application, with enhanced flow, enhanced flow retention and excellent 'wet-edge' (>20 mins @ 20^{O}C)
- Fast application by pump, enables large areas of floor to be completed in a working day
- Can be applied directly onto prepared concrete floors, eliminates traditional sand cement screeds
- Dimensionally stable, can be installed in large areas
- Excellent adhesion to prepared substrates
- Rapid hardening and curing allows speedy access for foot traffic and overlaying with carpet, vinyl etc.
- One pack product, applied by pump eliminates on-site batching and ensures consistency of mixed product
- Low VOC - 21.6 grams per litre (content test certificate available on request)
- Able to be applied in thicknesses of up to 50mm without addition of aggregate

Supply

18 kg bag

Yield / Coverage

Approx. 10.8 litres when mixed with 3.85 litres of water. 10.8 litres will cover 1m^2 at 10.8mm thick

Refer to Technical Data Sheet (TDS) for application guidelines.

Cemtop XD

Cementitious floor topping, internal trafficable wearing surface (6 -12 mm thickness)

Uses

Designed as an internal thin layer industrial wearing course for use in areas that are subjected to both foot and forklift traffic. Can be used for the reinstatement of existing floors or as a final wearing course on new concrete floors where specified floor tolerances have not been achieved or where, for speed of installation, the concrete floor has been left with a rough screed finish. Suitable for use across a wide range of industrial environments such as warehouses, light to medium engineering operations, food processing plants, car parks etc. May be used either as a stand-alone system or, depending upon end use of floor, in conjunction with Nitoflor floor coatings.

Advantages

- Very fast application and rapid cure - minimises factory downtime
- Economic - more cost effective than equivalent resin based systems
- Dimensionally stable - can be installed in large jointless areas
- Self smoothing - minimal finishing required
- Durable - smooth dense surface, resistant to forklift truck traffic
- Water vapour permeable - allows installation on floors subject to rising damp
- One pack product, applied by pump - eliminates on-site batching and ensures consistency of mixed product

Description

A cement based floor surfacing system consisting of a blend of selected cements and hard wearing aggregates modified with polymers and flow agents. Used in conjunction with Nitoprime 330, a water based styrene-acrylate copolymer primer. Supplied as a grey powder which requires only the addition of water to produce a self smoothing, free flowing material.

Supply

15 kg bag

Coverage

Yields approx. 8.85 litres when mixed with 2.70 litres of water. 8.85 litres will cover 1m^2 at 8.85 mm thick.

Cemtop HD30

(Previously known as Aegis MSP)

Cementitious floor topping internal/ external trafficable surface (2 - 4 mm thickness)

Uses

Cemtop HD30 is used to provide a strong and durable cementitious coating that can be applied to a wide variety of substrates, including concrete, concrete blocks, aerated concrete blocks (AAC), asphalt and fibre cement. Cemtop HD30 is particularly useful to re-surface rain damaged concrete pavements or substrates which require a cementitious finish.

Advantages

- Provides a durable surface
- Excellent wear resistance
- Resistant to many industrial chemicals
- Suitable for interior and exterior applications
- Can be applied to many different substrates
- A range of textured finishes can be obtained
- Supplied in kit form for simple mixing & preparation
- Easy to apply, maintain and repair if necessary

Description

A durable polymer modified mortar for the protection of many substrates. Supplied in a plastic pail that contains a Dry Mix and a Wet Mix component. These are individually packed inside the pail; each component is removed from the pail allowing it to be used as a mixing vessel. The material is based on Portland cement (OPC), graded aggregates, chemical additives and is polymer modified. The hardened product exhibits excellent durability, weather resistance and strength.

Supplied in two grades; fine and coarse.

Supply

20kg two component pack

Coverage

20kg pack yields 10 litres;

5 m^2 at 2 mm thick

Refer to Technical Data Sheet (TDS) for application guidelines.

Nitoprime 330

(Previously known as Durafloor Level Prime)

High performance primer for Cemtop XD, Cemtop GP and other cement based levelling/repair compounds

Uses

Nitoprime 330 is the recommended primer for the Cemtop cementitious flooring overlay systems when applied to concrete and cementitious screeds. The primer film forms and seals the substrate to prevent air release which could otherwise cause pinholes in the floor topping.In addition it “wets” out the substrate, promotes adhesion and prevents desiccation of the Cemtop.

Also the recommended primer for Paveroc, Patchroc C and Patchroc GP.

Advantages

- Excellent adhesion to concrete and cementitious screeds
- Excellent water resistance after film formation
- Economic, easy to use with no restrictive pot life

Description

A water-based styrene-acrylate copolymer emulsion, formulated to achieve specific performance characteristics. It is supplied as a single component white liquid.

Supply

1, 5 and 20 litre

Coverage

10 - 20 m^2/litre/coat (after dilution with clean water as specified)

Nitoflor FC100

Floor sealer, general purpose solvent based, UV stable, acrylic coating

Uses

A sealer for concrete floors to provide a dustproof and more easily cleaned surface with resistance to penetration of oils and other liquids. Ideal for warehouses, car parks, light industrial buildings, etc.

Advantages

- Simple brush, roller or spray application
- Efficient curing media for where compatibility is required between an efficient curing compound and a final seal coat
- Good resistance to abrasion
- Totally seals the concrete surface preventing dusting
- Available in clear, grey and special colours on approval
- Single component - no mixing
- Easily applied by maintenance personnel
- UV Resistant - non yellowing

Description

A one-component, penetrating, synthetic acrylic coating. It has excellent adhesion to cementitious surfaces and when cured forms a semi-gloss, flexible film. It penetrates the surface to bind together the particles to produce a harder wearing surface.

When used as a floor coating, a minimum of two coats are recommended. One coat may be suitable when applied over approved and tested curing compound such as Concure CR.

Supply

20 and 200 litre drums

Coverage

6 - 8 m^2 per litre per coat

Refer to Technical Data Sheet (TDS) for application guidelines.

Nitoflor FC120 HB

Floor coating, chlorinated rubber, UV stable, for trafficable floors / carpark areas

Uses

An economical and decorative surface treatment for concrete to protect against wear and chemical attack.

Nitoflor FC120 HB is suitable for use in heavy traffic areas such as light industrial traffic stairs, driveways and parking stations.

Advantages

- Very economical and easy to apply
- Low maintenance
- Simple to recoat or touch up
- Has good wear resistance
- Reduces dusting of concrete floors
- Resistance to yellowing

Description

Nitoflor FC120 HB are decorative, wear resistant surface coatings with a low gloss finish. The Nitoflor FC120 HB range of products is based on suitably chlorinated rubbers and is available in Silver Grey and Black.

Nitoflor FC120 HB is a heavy duty chlorinated rubber based floor coating which is resistant to yellowing from ultra violet radiation and also resistant to attack from automotive spillages.

Supply

20 litre drum

Coverage

5 m^2 per litre per coat

Nitoflor FC130

Floor / wall coating, economical, water based epoxy, chemical resistant

Uses

To provide a dust-proof, easily cleaned surface which is resistant to most oils and liquids. It is suitable for use on walls and floors in warehouses, garages, light industrial and food processing areas, kitchens and other areas of pedestrian and light vehicular traffic.

Advantages

- Durable - good resistance to abrasion
- Economical - easy to apply, minimises cleaning costs
- Water based - low odour
- Good resistance to a wide range of chemicals
- Can be applied to asphalt surfaces

Description

A two-component water dispersed epoxy resin coating system supplied in pre-weighed packs ready for on-site mixing and use.

The cured film forms a resilient, semi-matt seal to concrete and other substrates.

The product is available in Silver Grey, Mid Grey and Clear.

Supply

4 and 16 litre packs

Coverage

First coat:	6 - 8 m^2 per litre
Second coat:	8 - 10 m^2 per litre

Refer to Technical Data Sheet (TDS) for application guidelines.

Nitoflor FC150 HP

(Previously known as Durafloor HP)

High build, solvent free epoxy floor coating

Uses

A heavy duty, industrial / commercial surface treatment for concrete floors and walls. Highly resistant to chemical attack and the action of forklift vehicular and commercial type traffic.

When used in conjunction with appropriate slip resistant medium, Nitoflor FC150 HP is suitable for use in wet areas where hygiene and cleanliness are required or where chemicals are manufactured, spilled or are an integral part of the process. Used in the food and chemical industry, hospitals, schools, kitchens, high traffic applications and many other installations.

Advantages

- 100% solids - high build, solvent free floor coating
- Long lasting and easily maintained with good resistance to many industrial chemicals
- Slip resistance improves safety for plant and personnel
- Certified 'non-taint' around food stuffs during and after installation
- Provides an attractive satin finish
- Available in a wide range of light reflective colours
- Available in a fast cure version (Nitoflor FC150 HP FC)

Description

A multi-component (base, hardener & Nitoflor colour packs) solvent-free epoxy resin high build coating. The formulation allows the incorporation of slip resistant grits and provides good chemical and abrasion resistance.

Supply

4 & 8 litre packs

16 litre packs* (made to order)

Coverage

First coat:	4 - 6 m^2 per litre on concrete
Second Coat:	2 - 3 m^2 per litre: medium grit

Nitoflor FC150 HP FC

(Previously known as Durafloor FC)

Fast cure, solvent free epoxy, floor coating

Uses

Surface coating for concrete and steel floors that is attractive and easily cleaned. Highly resistant to chemical attack and action of vehicular / foot traffic.

Used in the food and chemical industry, hospitals, schools, kitchens and many other installations.

Specially selected and processed grades of quartz sand grits are available to make safe all types of working areas for both personnel and plant.

Nitoflor FC150 HP FC may be used without grit as a coating on epoxy floor screeds or as a high quality protective coating for walls, coves, drains, etc.

Advantages

- 100% solids - high-build, solvent free floor coating suitable for application in confined areas or where volatile emissions are of concern
- Special fast cure - allowing rapid plant turnaround
- Chemically resistant - good resistance to a wide range of industrial chemicals
- Hygienic - does not support the growth of germs or bacteria

Description

A multi component (base, hardener and Nitoflor colour pack) solvent-free epoxy resin treatment. The finished floor is a semi gloss textured surface coloured to individual requirements. It has excellent adhesion qualities, is impervious and easily cleaned.

Supply

4 litre pack plus colour pack (total pack size: 4 litres)

Coverage

First coat: 4 - 6 m^2 per litre on concrete

Second Coat: 2 - 3 m^2 per litre: medium grit

Refer to Technical Data Sheet (TDS) for application guidelines.

Nitoflor SL

(Previously known as Durafloor SL)

Floor topping, industrial, self smoothing epoxy resin system (2 - 4 mm thickness)

Uses

Designed for use in a range of industrial environments where a lasting solution to floor maintenance problems is required. Provides a dense, impervious, coloured and chemically resistant floor surface which is hygienic / easy to clean. Typical applications include hospital clean rooms, laboratories, food processing plants, film studio floors, prisons, supermarkets and light industrial plants.

Advantages

- Applied from 2 - 4 mm thickness
- High flow characteristics combined with an attractive self smoothing finish
- Fast application - minimises downtime
- Chemically resistant - good resistance to a wide range of chemicals
- Durable - good abrasion resistance
- Attractive - available in a wide range of colours to enhance the working environment
- Nitoflor SL is suitable for use in food processing areas, where non-taint is important

Description

A self smoothing, solvent free epoxy screed. It is supplied supplied pre-measured, multi-component system ready for on-site mixing.

When laid over suitably prepared and primed concrete, it provides a smooth, durable surface. It is available in a wide range of standard colours. If a slip-resistant finish is required this can be achieved by application of Nitoflor FC150 HP incorporating suitable anti-slip grains.

Supply

Packs containing pre-weighed components : base, hardener and fillers which, when combined with two Nitoflor colour pots produce 16 litres of mixed product.

Coverage

16 litre pack (8 m^2 at 2 mm thickness / 4 m^2 at 4 mm thickness)

Nitoflor SLX

(Previously known as Durafloor SLX)

Floor topping, industrial, self smoothing epoxy resin system for cold weather application (2 - 4 mm thickness)

Uses

Designed for use in a wide range of industrial environments where a lasting solution to floor maintenance problems is required. Provides a dense, impervious, coloured and chemically resistant floor surface which is hygienic and easy to clean. Typical applications include hospital clean rooms, laboratories, food processing plants, film studio floors, prisons, supermarkets and light industrial plants.

Advantages

- Resistant to “epoxy bloom” effect in cold / humid conditions
- High flow characteristics combined with an attractive self smoothing finish
- Fast application - minimises downtime
- Chemically resistant - good resistance to a wide range of chemicals
- Durable - good abrasion resistance
- Hygienic - provides a dense, impervious, seamless floor surface
- Attractive - available in a wide range of colours

Description

A self smoothing, solvent free epoxy screed Nitoflor SLX is a self smoothing, solvent free epoxy screed incoporating a special hardener component resistant to “epoxy bloom” effect. It is supplied supplied pre-measured, multi-component system ready for on-site mixing.

When laid over suitably prepared and primed concrete, it provides a smooth, durable surface. Available in a wide range of standard colours. If a slip-resistant finish is required this can be achieved by application of Nitoflor FC150 HP incorporating suitable slip resistant grit.

Supply

Supplied in packs containing pre-weighed components consisting of base, hardener and fillers which, when combined with two Nitoflor Colour Pots produce 16 litres of mixed product.

Coverage

16 litre pack (8 m^2 at 2 mm thickness / 4 m^2 at 4 mm thickness)

Refer to Technical Data Sheet (TDS) for application guidelines.

Nitoflor N

(Previously known as Durafloor N)

Highly chemically resistant novolac epoxy clear binder, producing various coating and topping application systems

Uses

Highly chemically resistant Novolac epoxy coating/topping system suitable for surfaces including concrete, steel and masonry. It is principally designed for acid proofing within the mining processing industry and other similar installations. A complete protection system for concrete and other hard substrates where aggressive chemical spillages occur and high wear resistance is required.

Advantages

- High chemical resistance
- Fast cure properties
- A total system for all application types
- Excellent wear and abrasion resistance

Description

Nitoflor N is a novolac epoxy for concrete and other hard substrates where aggressive chemical spillages occur and where high wear resistance is required.

Supplied as a clear binder, Nitoflor N may be used neat as a clear coating system or added to a variety of fillers to produce various application systems, such as a trowel floor.

Supply

Base:	15 litre pail
Hardener:	10 litre pail

Coverage

Please refer to table in Technical Data Sheet (TDS)

Nitoflor Anti Slip Grains

(Previously known as Durafloor Anti Slip Grains)

Silicon carbide grains for slip and wear resistance on concrete floors

Uses

Nitoflor Anti-Slip Grains are used in the finishing of concrete floors to make the surface slip and wear resistant, and at the same time allow a fine smooth surface to be produced. Suitable for use in schools, hospitals, public buildings, factories, on fire escapes, stairways, entrances, loading ramps, machine surrounds, etc.

Nitoflor Anti-Slip Grains give a pleasant black speckling and glittering sparkle on the finished surface.

Nitoflor Anti-Slip Grains are specifically designed for sprinkle on applications to suitably prepared concrete floor surfaces, either monolithically (on a new concrete slab), or with a suitable floor screed.

Advantages

- Maximum slip resistance compared to many other floor hardener aggregates
- Non-staining
- Chemically resistant
- Suitable for use on wet surfaces
- Slip resistance increases with use
- Gives an aesthetically pleasing surface finish
- Reduces maintenance

Description

Nitoflor Anti-Slip Grains are high purity, chemically treated, silicon carbide grains which have been ground and milled to give a specific shape and screen grading to ensure thorough bonding with the Portland Cement concrete surface mix.

Nitoflor Anti-Slip Grains are shaped as such that they are not liable to break up under traffic conditions and become detached from the cement surface.

Supply

25 kg bag

Coverage

0.5 kg/m^2

Refer to Technical Data Sheet (TDS) for application guidelines.

Curing Compounds & Surface Treatments

Section summary

Concrete Curing Compounds

Form Release Agents & Retarders

Refer to Technical Data Sheet (TDS) for application guidelines.

Notes

Concure AV

Evaporative retarder for plastic concrete to reduce shrinkage cracks

Uses

Concure AV is recommended for spray applications onto the fresh surface of plastic concrete to greatly reduce cracking caused by unfavourable weather conditions.

Concure AV is useful in all types of flat concrete applications, whether plain or coloured, machine or hand finished, including stamped concrete.

Advantages

- Reduces and often eliminates the formation of shrinkage cracks in plastic concrete
- Gives superior finishing properties during unfavourable weather conditions
- Maintains a plastic and workable surface
- Prevents surfaces crusting

Description

Concure AV in its diluted form is a violet liquid dispersion of high fatty alcohols that reduce rapid water evaporation from the surface of freshly placed concrete.

Concure AV is supplied as a concentrate which can be diluted with between 4 parts and 9 parts of clean water to 1 part of Concure AV. In very dry weather conditions a 4:1 dilution is recommended.

Concure AV will not discolour the finished concrete or leave any residue. It minimises formation of surface efflorescence.

Supply

20 and 200 litre drums

Coverage

Use after dilution with 4 parts of water to 1 part of Concure AV.

1 litre of undiluted Concure AV yields 5 litres of sprayable material that covers approximately 50m² (10m²/litre) per application.

Use after dilution with 9 parts of water to 1 part of Concure AV.

1 litre of undiluted Concure AV yields 10 litres of sprayable material that covers approximately 100m² (10m²/litre) per application.

Concure A99

Water based acrylic curing compound - conforms to AS3799

Uses

Concure A99 is recommended for applications to the surfaces of freshly laid concrete, including renders, structural and mass concrete indoors and outdoors and particularly in situations where other conventional means of wet curing are difficult to maintain.

Advantages

- Water retention efficiency of 90%. Complies to AS3799-1998
- Water based and environmentally friendly
- Eliminates the need for damp hessian, sand or polythene sheeting
- Rapid film formation
- Will not yellow in sunlight
- Economical
- Seals concrete surfaces
- Takes most after trades

Description

Concure A99 is a liquid acrylic emulsion membrane curing compound, which when applied to fresh concrete dries to a transparent film of high water retention enabling curing of the concrete by reducing loss of water from the concrete.

Supply

20 and 205 litre drums

Coverage

5 m^2/litre

Refer to Technical Data Sheet (TDS) for application guidelines.

Concure CR

Chlorinated rubber based, curing compound

Uses

Mainly used on freshly laid concrete floors. Also used for curing vertical concrete areas immediately after the stripping of forms to assist strength development, improve chemical resistance, etc.

Advantages

- Enables concrete to hydrate more efficiently
- Increases concrete strength and dusting resistance
- Eliminates the need for damp hessian, sand or polythene
- Rapid film formation
- Odourless when dry
- Facilitates job clean up and maintenance of the coated surface

Description

Concure CR consists of a processed blend of chlorinated rubber and modifying agents in Xylene to give a stable, transparent, quick drying, mobile liquid. Concure CR cures, seals and hardens the surface of new concrete, providing increased strength and durability and improved resistance to chemicals and surface dusting.

Supply

20 and 200 litre drums

Coverage

5 m^2/litre

Concure HR90

Hydrocarbon resin based, curing compound - conforms to AS3799

Uses

Provides a resin membrane on the surface of newly placed concrete to retain moisture for effective curing to take place. Applications include:

- Concrete roads
- Bridge works
- Hardstanding areas
- Concrete pavements

Advantages

- Rapid film formation time
- Utilises low hazard solvent for safer application
- Economical, ease of application reduces labour cost
- Eliminates the need for damp hessian, sand or polythene
- Enables concrete to hydrate more efficiently
- Increases concrete strength and dusting resistance
- Reduces surface shrinkage and cracking

Description

Concure HR90 is a liquid applied curing compound which consists of a processed blend of petroleum and resin based hydrocarbons. When applied at the recommended application rate Concure HR90 minimises moisture loss in freshly laid concrete thus improving the curing of the concrete.

Supply

200 litre drum

Coverage

5 m^2/litre

Refer to Technical Data Sheet (TDS) for application guidelines.

Concure WB30

Water based wax emulsion, curing compound - conforms to AS3799

Uses

Concure WB30 provides a spray-on membrane to retain moisture in concrete for effective curing. Used for concreting generally but especially useful for large areas of concrete construction such as runways, motorways or bridgeworks.

Advantages

- Reduces surface shrinkage and cracking by eliminating moisture loss from exposed surfaces
- Increases concrete strength and dusting resistance
- Eliminates the need for damp hessian, sand or polythene
- Rapid film formation
- Enables concrete to hydrate more efficiently
- Non-flammable; non-toxic
- Economical

Description

Concure WB30 is a low viscosity wax emulsion which incorporates a special alkali reactive emulsion system. This system ensures that the emulsion forms a non penetrating continuous film immediately upon contact with a cementitious surface. This impervious film prevents excessive water evaporation which in turn permits more efficient cement hydration thus reducing shrinkage and increasing durability.

Supply

20 and 200 litre drums

Coverage

5.0 m^2/litre

Concure X90

Promotes efficient cement hydration, minimises shrinkage whilst increasing durability of the concrete surface

Uses

Suitable for curing all freshly laid concrete either smooth or textured, indoors or outdoors. Due to it's formulation and blend of resins, Concure X90 will begin to break down after 7 days and, if applied at the specified application rates, will totally oxidise and leave the surface, subject to UV exposure, typically within 45 - 55 days of the application. This reduces the level of surface cleaning in preparation for after trades.

Advantages

- Complies with Australian Standards AS3799
- Achieves water retention of 90% or greater
- Increased abrasion resistance
- Contains no wax
- Eliminates need for curing by ponded water, damp hessian or polythene sheeting
- Reduces concrete dusting
- Reduces plastic shrinkage
- One coat application

Description

A blend of resins and surfactants emulsified in water and is specially formulated to cure freshly laid concrete. The impervious film formed by Concure X90 prevents excessive water evaporation, promotes efficient cement hydration, minimises shrinkage whilst increasing durability of the concrete surface.

Supply

205 and 1000 litre drums

Coverage

5 m^2/litre

Refer to Technical Data Sheet (TDS) for application guidelines.

Concure B90

Bitumen and hydrocarbon resin blend emulsified in water

Uses

Suitable for curing all freshly laid concrete either smooth or textured, indoors or outdoors. Due to its totally unique formulation and blend of bitumen resins and hydrocarbons, Concure B90 not only cures concrete but it also acts as a primer coat for asphalt and bitumen overlays.

It is ideally suitable for bridge decks and road construction where a concrete curing compound and bitumen primer can be applied in one application.

Advantages

- Compatible with bitumen overlays
- Complies with Australian Standards AS3799
- Achieves water retention of >90%
- Contains no wax
- Reduces plastic shrinkage
- Eliminates the need for curing by ponded water,damp hession or polythene sheeting
- Cationic emulsion
- Totally waterbased with no solvent odour

Description

A blend of bitumen and hydrocarbon resins emulsified in water. The impervious film formed by Concure B90 prevents excessive water evaporation, promotes efficient cement hydration, minimises shrinkage whilst increasing durability of the concrete.

Supply

200 & 1000 litre drums

Coverage

5 m^2/litre

Reebol WB

Water based formwork and mould release agent

Uses

To provide quick, clean and easy stripping of moulds and formwork and ensure high quality fair-faced and stain-free concrete.

Advantages

- Low cost and economical
- Non-hazardous, non-toxic
- Ensures good fair-faced concrete
- Non-staining
- Minimises cleaning of shutters before re-use
- Can be used on all types of formwork
- Does not rust steel moulds or equipment
- Does not inhibit application of paints to finished concrete (field trials should be conducted)

Description

An emulsified blend of mineral oils and non-hazardous chemicals, specially formulated to produce release properties which are superior to those of a conventional mould oil. Supplied as a sprayable white liquid, ready for direct application on site.

The chemically reactive components in Reebol WB provide a water repellent interface which protects formwork and ensures an even colour and texture of the cast concrete. In addition to preventing adhesion of the cement matrix to the formwork, Reebol WB will allow air to escape from the interface during concrete placing and vibration. This release of air minimises surface blemishes and results in a substantial reduction in remedial costs.

Supply

200 litre drum

Coverage

Steel:	30 m^2/litre
Coated Form Ply:	20 m^2/litre

Refer to Technical Data Sheet (TDS) for application guidelines.

Form Release Agent

Economical, general purpose formwork and mould release agent

Uses

To provide a positive form release and a smooth defect-free finish, suitable for steel, wood or paper forms.

Advantages

- Low cost and economical
- Non staining
- Minimises form stripping time
- Maximises life of form work

Description

Form Release Agent is a specifically formulated blend based on a light, clear hydrocarbon carrier.

The Form Release Agent reacts with the free lime in the concrete to produce a soap-like film. The film allows trapped air or free water to escape during vibration to minimise surface voids.

Supply

20 and 200 litre drums

Coverage

Non-porous form surfaces:	30 - 35 m^2 / litre
Semi-porous form surfaces:	25 - 30 m^2 / litre
Porous form surfaces:	12 - 25 m^2 / litre

Preco Bondbreaker

Mould release agent for prefabricated or tilt up panel construction

Uses

Preco Bondbreaker is designed for use in prefabricated or “tilt-up” panel construction. It will significantly reduce surface defects including blowholes in concrete finish and ensures easy demoulding to architectural quality standards.

Advantages

- Preco Bondbreaker is non-staining, protects moulds from corrosion and water damage
- Preco Bondbreaker will not affect bonding of subsequent toppings, render, paint, textured coatings or plaster finishes
- Preco Bondbreaker can be used with most types of moulds

Description

A specially formulated mould release agent and concrete curing compound, designed to eliminate surface defects and ensure clean architectural quality lift-off in prefabricated or “tilt-up” panel construction applications.

Preco Bondbreaker can be supplied with a fugitive dye to assist application control.

Supply

20 and 200 litre drums

Refer to Technical Data Sheet (TDS) for application guidelines.

Preco Form Creme

Ready to use, non-drip, form release creme

Uses

Preco Form Creme is for use in application to steel hinges or vertical forms where a non-drip and long lasting release agent is required.

Advantages

- Prevents concrete penetration into steel hinges and rust staining
- Prevents distortion
- Resists transfer of splinters - forms into concrete
- Resists exposure to weather conditions for several days prior to a concrete pour

Description

Preco Form Creme is a specially formulated, non-drip form release agent, which penetrates deep into new untreated formwork, prevents distortion of forms and resists transfer of splinters into concrete from sawn forms.

The Preco Form Creme reacts with the free lime in the concrete to produce a soap-like film. The film allows trapped air or free water to escape during vibration to minimise surface voids.

Supply

20 litre drum

Coverage

Approx. 8m^2 / litre

Preco RWB

Surface revealing liquid for exposed aggregate finish on fresh concrete

Uses

Preco RWB is used to reveal aggregate in freshly placed horizontal concrete by delaying the surface set so that the mortar paste may be brushed and washed from between the aggregate particles, after the mass of the concrete has set. This produces an attractive exposed aggregate finish, or a key for subsequent pours or renders, e.g. floors, precast walls and slabs, paving, etc.

Advantages

- Preco Uniform and controlled depth of retardation.
- Preco RWB treated surfaces are normally readily revealed and cleaned by careful jet hosing, brooming or wire brushing
- Surfaces treated with Preco RWB provide an excellent key for bonding subsequent renders or concrete, without the need for hacking, or mechanical scabbling
- Depth of reveal for various sized aggregate can be readily controlled
- Economical and simple method of horizontal concrete surface revealing
- Flexible time factor - up to 24 hours under normal application usage
- Less labour time necessary to obtain required face up finishes

Description

Preco RWB is a water based retarder for concrete surfaces, which is ready for use on freshly laid concrete to reveal the aggregate content of the mix.

It is based on polyoxycarboxylates and other agents which combine to retard the set of the cement matrix on the surface of concrete to a depth of between 3 mm and 6 mm, depending upon the thickness and concentration of the application, and the design of the concrete mix.

Supply

20 litre pail

Refer to Technical Data Sheet (TDS) for application guidelines.

Joint Sealants & Fillers

Section summary

General Construction Sealants

Fire Rated Sealants

Joint Sealants, Fillers & Waterstops

Section summary

Civil Construction Sealants

Pre-cast Concrete Jointing

Refer to Technical Data Sheet (TDS) for application guidelines.

Joint Sealants, Fillers & Waterstops

Section summary

Joint Filler Boards & Backing Rods

Notes

Refer to Technical Data Sheet (TDS) for application guidelines.

Nitoseal MS250

(Previously known as Duraflex)

Ultra UV resistant elastomeric joint sealant

Uses

Seal moving or static joints in high performance applications in building facades and general construction such as;

- Precast or insitu concrete
- Curtain walls and lightweight cladding
- Tilt-up slabs
- Brick and blockwork
- Most building materials.

Advantages

- Easy to extrude – even at low temperatures
- 50% joint movement capability
- Outstanding weathering and UV resistance to maintain colour and integrity
- Excellent primerless adhesion to concrete, timber, masonry, aluminium, metal and ceramics
- Will not stain masonry or other surfaces
- Blister free cure in high humidity or on damp surfaces
- Low odour and very low VOC 15g/L
- Contains no isocyanate

Description

Nitoseal MS250 is a high performance elastomeric joint sealant based on Silyl Modified Polymers. Nitoseal MS250 offers the weathering and adhesion performance of a silicone sealant together with the toughness and the stain-free properties of a polyurethane sealant.

Supply

Supplied in 600 ml sausages

Coverage

On average one 600 ml sausage will supply 6 metres of 10 mm x 10 mm sealant bead.

Nitoseal MS400

(Previously known as Duraflex FC)

Ultra UV resistant elastomeric trafficable joint sealant

Uses

Seal moving or static joints in high performance applications where high strength is required such as;

- Trafficable floor joints in pavements and footpaths
- OEM Assembly
- Brick, blockwork and paving
- Most building materials.

Advantages

- Easy to extrude – even at low temperatures
- 40% joint movement capability
- Outstanding weathering and UV resistance to maintain colour and integrity
- Excellent primerless adhesion to concrete, timber, masonry, aluminium, metal and ceramics
- Will not stain masonry or other surfaces
- Blister free cure in high humidity or on damp surfaces
- Low odour and very low VOC 15g/L
- Contains no isocyanate

Description

Nitoseal MS400 is a high performance elastomeric trafficable joint sealant based on Silyl Modified Polymers. Nitoseal MS400 offers the weathering and adhesion performance of a silicone sealant together with the toughness and the stain-free properties of a polyurethane sealant.

Supply

600 ml sausages

Coverage

Each 600 ml sausage will supply 6 metres of 10 mm x 10 mm sealant bead.

Refer to Technical Data Sheet (TDS) for application guidelines.

Nitoseal PU250

(Previously known as Emer-Seal PU25)

High performance, flexible, one-component, polyurethane joint sealant

Uses

Sealing joints in concrete panels, fibrous cement products, external cladding panels, blockwork and brickwork. Also in sealing joints around aluminium and timber door and window frames and between metal. Also suitable for sealing sawn joints up to 10 mm wide in concrete floors and pavements.

Advantages

- Excellent primerless adhesion to concrete, timber, masonry, bricks, aluminium, metal and ceramics
- *Paintable any time after curing
- Neutral cure
- Low odour
- Fast skinning and fast curing

* May cause staining of acrylic paints. Test compatibility of paint before application.

Description

Nitoseal PU250 is a high performance elastomeric joint sealant based on polyurethane technology. Nitoseal PU250 uses a neutral cure system reacting on exposure to atmospheric moisture. When cured it forms a waterproof and durable seal, which makes it ideal for exterior applications.

Supply

600 ml sausages

Coverage

Each 600 ml sausage will supply 12 m of 10 mm x 5 mm sealant bead.

Nitoseal PU400

(Previously known as Emer-Seal PU40)

Tough, abrasion resistant, one-component, trafficable, polyurethane joint sealant

Uses

For bonding or sealing joints between most construction materials, where a high bond strength is required.

- Trafficable floor joints
- Metal or concrete water retaining structures
- Assembly of metal framed buildings
- Cover plates and covings
- Bolted lap joints
- Sealing pipe penetrations in walls and floors

Advantages

- Suitable for use as a sealant or adhesive
- Ideal for wide floor joints
- Tough and abrasion resistant
- Excellent primerless adhesion
- Fast curing
- Weather resistant
- Non staining
- Suitable for water immersed applications when used with appropriate primer

Description

Nitoseal PU400 is a medium modulus elastomeric joint sealant/adhesive based on polyurethane technology. Nitoseal PU400 uses a neutral cure system reacting on exposure to atmospheric moisture. When cured it forms a waterproof and durable seal, which makes it ideal for exterior applications.

Supply

600 ml sausage

Coverage

Each 600 ml sausage will seal 6 m of a 10 x 10 mm joint or 3 m of a 10 x 20 mm joint

Refer to Technical Data Sheet (TDS) for application guidelines.

Nitoseal SC100

(Previously known as Emer-Seal Construction Silicone)

High joint movement accommodation, one-component silicone joint sealant for façade applications

Uses

For sealing moving or static joints in:

- Precast or in-situ concrete
- Curtain walls and lightweight cladding
- Tilt-up slabs
- Brick, blockwork, marble and granite facades
- Most building materials

Advantages

- Ready to use - easy application
- Fast curing
- Service temperature range -50°C to +150°C
- Long life weathering performance
- High joint movement accommodation
- Excellent adhesion to most construction materials
- Will not stain porous construction materials (ie concrete, marble or granite)

Description

Nitoseal SC100 is a one part, gun applied, neutral cure silicone sealant which cures rapidly to form a durable, weathertight seal. Nitoseal SC100 remains permanently flexible and weatherproof under a wide range of climatic conditions. The unique polymers utilised in this 'state of the art' sealant combine to provide the outstanding weathering performance, for which silicone sealants are renown, with no risk of staining porous building materials.

Supply

600 ml sausage

Coverage

Each 600 ml sausage will seal 6 m of a 10 x 10 mm joint or 3 m of a 10 x 20 mm joint.

Nitoseal SC120

(Previously known as Emer-Seal Construction Silicone HM)

Tough, pick and abrasion resistant, one component silicone sealant / adhesive for civil and industrial applications

Uses

For bonding or sealing joints between most construction materials, where a high bond strength is required.

- Trafficable floor joints
- Assembly of metal framed buildings
- Cover plates and covings
- Bolted metal lap joints
- Prisons cells

Advantages

- Suitable for use as a sealant or adhesive
- Ideal for wide floor joints
- Pick resistant - suitable for high security establishments and public buildings
- Tough and abrasion resistant
- Fast curing
- Good adhesion to most construction materials
- Will not stain porous construction materials such as concrete, marble or granite

Description

Nitoseal SC120 is a one part, gun applied, neutral cure silicone sealant which cures rapidly to form a durable, weathertight seal. Nitoseal SC120 remains permanently flexible and weatherproof under a wide range of climatic conditions. The unique polymers utilised in this 'state of the art' sealant combine to provide the outstanding weathering performance, for which silicone sealants are renown, with no risk of staining porous building materials.

Supply

600ml sausage

Coverage

Each 600 ml sausage will seal 30 metres of a 5 mm bead or 12 metres of a 5 x 10 mm joint.

Refer to Technical Data Sheet (TDS) for application guidelines.

Nitoseal SC140

(Previously known as Emer-Seal Construction Silicone HM FC)

Fast curing, tough, pick and abrasion resistant, one component silicone sealant / adhesive for civil and industrial applications

Uses

For bonding or sealing joints between most construction materials, where a high bond strength and fast curing is required.

- Trafficable floor joints
- Assembly of metal framed buildings
- Cover plates and covings
- Bolted metal lap joints
- Prisons cells

Advantages

- Very fast curing - where quick return to service time is required
- Suitable for use as a sealant or adhesive
- Ideal for wide floor joints
- Pick resistant - suitable for high security establishments and public buildings
- Tough and abrasion resistant
- Good adhesion to most construction materials
- Will not stain porous construction materials such as concrete, marble or granite

Description

Nitoseal SC140 is a one part, gun applied, neutral cure silicone sealant which cures very rapidly to form a durable, weathertight seal. Nitoseal SC140 remains permanently flexible and weatherproof under a wide range of climatic conditions. The unique polymers utilised in this ‘state of the art’ sealant combine to provide the outstanding weathering performance, for which silicone sealants are renown, with no risk of staining porous building materials

Supply

600ml sausage

Coverage

Each 600 ml sausage will seal 30 metres of a 5 mm bead or 12 metres of a 5 x 10 mm joint.

Nitoseal MB175

Rubberised bitumen, mastic joint sealant compatible with bitumen based membranes

Uses

For sealing joints in retaining walls, roofing (sealing horizontal chases, flashings, gutterings and sheet laps), sealing terminations of bitumen based waterproofing membranes

Advantages

- Firm, flexible weather resistant seal
- Excellent slump resistance
- Suitable for permanent immersion in water
- Compatible with asphalt or bituminous surfaces
- Resistant to alkalis and sulphates
- Easy to apply

Description

A flexible, gun applied sealant based on a combination of bitumen and synthetic rubber. Dries to form a rubbery seal with excellent slump resistance. Nitoseal MB175 has good resistance to biodegradation, and is suitable for sealing lap joints in gutters and drainage channels where ponded water may reside. Also suitable for general sealing or pointing work in roofing and flashing applications.

Supply

600 ml sausage

Coverage

Each 600 ml sausage will seal 30 metres of a 5 mm bead or 12 metres of a 5 x 10 mm joint.

Refer to Technical Data Sheet (TDS) for application guidelines.

Flamex One

Fire rated, one-component, acrylic joint sealant for low movement interior applications

Uses

Sealing low movement interior joints requiring a fire rating of up to 4 hours in:

- "Tilt up" construction
- High and low rise construction
- Precast and insitu concrete
- Service penetrations (metal pipes) through walls
- Window/door frame perimeters

Advantages

- Economical waterborne formulation
- Easy to apply and finish
- Permanently flexible and paintable
- Slump resistant -suitable for wide joints
- Up to 4 hour fire rating

Description

Flamex One is a fire rated, non-slump, waterborne, acrylic joint sealant which dries quickly forming a flexible seal having good adhesion to most common building materials. It has very good application and finishing characteristics and forms a smooth skin quickly. Flamex One is flexible and will accommodate up to +/- 10% of structural movement between building components such as precast and insitu walls and ceilings, window and door frames as well as pipe penetrations. Flamex One is intended for use in relatively low movement interior joints, and is not suitable for use in water ponded or submerged applications.

Supply

600 ml sausage

Coverage

Each 600 ml sausage will seal approximately 3 metres of a 20 mm x 10 mm joint.

Flamex PU

Fire rated, high performance, flexible, one-component, polyurethane sealant for external and internal applications

Uses

Flamex PU is designed for sealing exterior and interior movement joints where a fire rating of up to 4 hours is required in:

- Expansion and construction joints
- Tilt-up construction
- Precast, blockwork and plasterboard
- Service penetrations (metal pipes) through walls
- Sealing in conjunction with fire collar or pillows
- Window and door frame perimeter joints

Advantages

- Fire rated up to 4 hours (AS1530 part 4, S4072 part 1)
- Excellent UV resistance and durability
- Permanently flexible
- Accommodates 50% total joint movement
- Non-staining
- Paintable
- Excellent adhesion with no primer
- Fast skinning time

Description

A one component, low modulus, gun grade, non-sag, moisture-cure polyurethane sealant with outstanding UV resistance. Flamex PU is designed to cure into a fire rated, elastic weatherproof seal. Flamex PU will accommodate 50% total joint movement while maintaining excellent weatherability.

Supply

600 ml sausage

Coverage

3 metres of a 20 mm x 10 mm joint

Refer to Technical Data Sheet (TDS) for application guidelines.

Flamex XT

UV resistant, one part sealant for fire and acoustic rated construction

Uses

Sealing fire rated or acoustic rated joints in high performance applications in building facades and general construction such as;

- External and internal, non-trafficable control joints in concrete, masonry, AAC and brick fire rated construction
- Acoustic sealing between most common building materials such as concrete, masonry, AAC, plasterboard, fibre cement, metals, timber and plastics as part of a suitable design

Advantages

- Fire rated for up to 4 hours*
- Meets BCA requirements for fire and acoustic sealing
- Easy to extrude – even at low temperatures
- 40% joint movement capability
- Outstanding weathering and UV resistance to maintain colour and integrity
- Excellent primerless adhesion to concrete, timber, masonry, aluminium, metal and ceramics
- Will not stain masonry or other surfaces
- Blister free cure in high humidity or on damp surfaces
- Low odour and very low VOC 15g/L
- Contains no isocyanate and Halogen free

Description

Flamex XT is a high performance fire and acoustic rated elastomeric joint sealant based on Silyl Modified Polymers. Flamex XT offers the weathering and adhesion performance of a silicone sealant together with the toughness and the stain-free properties of a polyurethane sealant.

Supply

600 ml sausage

Coverage

3 metres of a 20 mm x 10 mm joint

Nitoseal PU612

(Previously known as Emer-Seal 200)

Two component, polyurethane joint sealant for water retaining structures

Uses

Sealing movement and static joints in water retaining structures, especially in applications likely to be subjected to biological degradation such as:

- Sludge digestion tanks
- Sewerage and water treatment plants
- Filtration and aeration tanks
- Water reservoirs

Advantages

- Resistant to bacteriological attack
- Slump resistant - suitable for wide joints
- Abrasion resistant
- Excellent adhesion to primed substrates
- High joint movement accommodation
- Two component - fast, even cure rate

Description

A two part, gun grade, non-slump elastomeric polyurethane sealant specially formulated for sealing joints in all water retaining structures. It is highly resistant to biodegradation by both aerobic and anaerobic bacteria, which makes Nitoseal PU612 particularly well suited to sewage treatment and storage plants.

Supply

6 litre units

Coverage

Each 6 litre pack will seal approximately 16 m of a 25 mm x 15 mm joint

Refer to Technical Data Sheet (TDS) for application guidelines.

Nitoseal SC600

(Previously known as Emer-Seal CR)

Highly chemical resistant, fast cure, durable, one-component joint sealant

Uses

Sealing movement joints in;

- Floor joints in chemical processing plants
- Chemical bund areas
- Concrete joints exposed to acid spillage
- Sewage processing plants
- Food, wine and citrus processing plants
- Swimming pools

Advantages

- Fast rate of cure
- Long life weathering resistance
- Highly resistant to biological attack
- Highly resistant to a range of chemicals including strong acids and alkalis
- Highly resistant to pool chlorine, salt water chlorination and ozone treatment
- Potable water AS4020 certification
- Compatible with Nitoflor N protection systems for concrete

Description

Nitoseal SC600 is a one part, gun applied non sag joint sealant designed for sealing expansion and construction joints exposed to aggressive chemical environments. Nitoseal SC600 utilises unique polymer technology which provides outstanding chemical resistance and cures by reaction with atmospheric moisture to form a tough flexible seal. Once cured, Nitoseal SC600 is resistant to attack from most of the aggressive chemicals used in the food, mining and chemical processing industries.

Supply

600 ml sausage

Coverage

Each 600 ml sausage will seal approximately 3 m of a 20 mm x 10 mm joint

Nitoseal SC800

(Previously known as Emer-Seal Roadseal)

High performance, low modulus, high joint movement accommodation, one-component silicone rubber joint sealant

Uses

Sealing saw cut and formed joints in;

- Concrete roads and pavements
- Bridge decks and carparks
- Aircraft runways and hard-stand aprons

Advantages

- Easy contractor application - No mixing / heating required
- Fast rate of cure
- Excellent adhesion to clean dry concrete
- Excellent weathering - UV and ozone resistant
- Dispensed from a bulk container by hand or air powered pump
- Large joint movement accommodation

Description

Nitoseal SC800 is a one-part, gun applied, silicone rubber joint sealant designed to effectively seal joints in concrete roads, runways, carparks and pavements. The low modulus characteristics of Nitoseal SC800 allow it to accommodate cyclic joint movements of plus 100% and minus 50%. Nitoseal SC800 is designed to be applied to joints between concrete pavements in order to prevent running water from undermining the pavement. Nitoseal SC800 also serves to prevent stones from being deposited in the joints which would otherwise lock the joints and restrict the free thermal movement of adjacent pavement segments.

Supply

600 ml sausage, 20 litre and 200 litre drums

Coverage

Each 20 litre drum will seal approximately 200 m of joint with a 10mm wide by 10mm deep sealant bead

Refer to Technical Data Sheet (TDS) for application guidelines.

Nitoseal SC820

(Previously known as Emer-Seal Roadseal SL)

Low modulus, self-smoothing, one component silicone joint sealant

Uses

Sealing sawn joints in;

- Abutment joints between concrete and asphalt roads and pavements
- Slot sealing of cable installations in asphalt and concrete pavements

Advantages

- Easy contractor application - No mixing / heating required
- Excellent adhesion to clean dry concrete and sawn asphalt
- Excellent weathering - UV and ozone resistant
- Dispensed from a bulk container by hand or air powered pump
- Large joint movement accommodation

Description

A low modulus, self-smoothing, one-part, gun applied, silicone joint sealant designed to effectively seal joints in concrete and asphalt roads, runways, carparks and pavements. The extra low modulus characteristics of Nitoseal SC820 allow it to accommodate large cyclic joint movements of plus 100% and minus 50% in both concrete and asphalt pavements, while not generating high tensile stresses in weak asphalt substrates. Nitoseal SC820 is designed to be applied to joints between concrete pavements in order to prevent running water from undermining the pavement. Nitoseal SC820 also serves to prevent stones from being deposited in the joints which would otherwise lock the joints and restrict the free thermal movement of adjacent pavement segments.

Supply

600 ml sausage, 20 litre and 200 litre drums

Coverage

Each 20 litre drum will seal approximately 415 m of joint with a 6 mm wide by 8 mm deep sealant bead

Thioflex 555

High performance, elastomeric, pavement joint sealant

Uses

Polysulphide sealant for the sealing and maintenance of joints in concrete roads, concrete runways and hard standings.

Particularly suitable for sealing areas where fuel spillage might occur such as aircraft fuelling areas, oil terminals, garage forecourts, parking and cargo areas. Available in machine grade (fast setting) and hand grade (standard setting).

Advantages

- Machine applied grade for efficient, safe application
- High extrusion rates
- Fast cure and return to service
- Available in a hand grade, slower set version
- Fuel and hydraulic fluid resistance
- Jet blast resistance
- Polysulphide - high stress relaxation
- High resilience
- Resistant to stone/ dirt pickup
- High durability and long service life
- High movement accommodation

Description

Thioflex 555 is a two component, polysulphide self-levelling type sealant product designed to meet requirements in pavement applications. Machine Grade Product is ideal for fast return to service and should be applied through a suitable metered application machine, by specialist applicators - details on request. The product retains its movement accommodation of 25% on butt joints throughout temperature extremes. It does not harden in cold weather nor become excessively soft in hot conditions.

Supply

Thioflex 555 Machine Grade: 400 and 30 litre pack

Thioflex 555 Hand Grade: 5 litre pack

Coverage; Please refer to Technical Data Sheet for details

Thioflex 600 Gun Grade

Fuel resistant, low modulus, high joint movement accommodation, two-component polysulphide joint sealant

Uses

Sealing high movement joints in building and civil engineering structures, including superstructures, reservoirs, floors, basements and subways.

Advantages

- Forms a tough, elastic, rubber-like seal
- Accommodates continuous and pronounced cyclic movement (+/- 30%)
- Adheres to most common substrates
- High resistance to ageing reduces physical damage due to climatic extremes
- Easy mixing and application

Description

Thioflex 600 Gun Grade is a two-component joint sealant, based on a liquid polysulphide polymer which, when mixed and applied, cures to form a tough, rubber-like seal. The cured sealant exhibits excellent adhesion to most primed surfaces including concrete, glass, aluminium and stainless steel.

Supply

6 litre pack

Coverage

Please refer to Technical Data Sheet for details

Thioflex 600 Pouring Grade

Fuel resistant, multi-component, pouring grade, polysulphide joint sealant for horizontal movement joints

Uses

Sealing horizontal movement joints in building and civil engineering structures, including roads, floors, airfields and subways.

Advantages

- Forms a tough, elastic, rubber-like seal
- Accommodates continuous and pronounced cyclic movement
- Excellent adhesion to most common substrates
- High resistance to ageing reduces physical damage due to climatic extremes

Description

A multi-component joint sealant, based on a liquid polysulphide polymer, which when mixed and applied, cures to form a tough, rubber-like seal. The cured sealant exhibits excellent adhesion to most primed surfaces including concrete, aluminium and stainless steel.

Supply

4 and 16 litre packs

Coverage

Please refer to Technical Data Sheet for details

Refer to Technical Data Sheet (TDS) for application guidelines.

Expoband 110

(Previously known as Emer-Band)

Highly flexible, large joint capable, chemically resistant, joint bandage membrane system

Uses

Expoband 110 is designed to be bonded over movement joints or cracks in a structure to prevent the ingress of water and chemicals. Used to seal joints in car park decks, podiums, balconies, walkways and other elevated structures, where the Expoband 110 can be protected from mechanical damage by a cover plate. It can also be used for over-strapping joints in basements, subways, tunnels, refineries and substructures in general.

Expoband 110 can also be used on silos, roofs as well as water immersed applications such as tanks, sewers, reservoirs, pipelines and swimming pools where the joint movement may exceed the capability of conventional gun applied elastomeric sealants.

Advantages

- Forms a tough, flexible joint flashing
- Accommodates continuous, and pronounced cyclic movement
- Excellent resistance to UV and weathering
- AS4020 approved for potable water
- Application to dry and damp surfaces
- Excellent adhesion to most construction materials
- Rot resistant
- Expoband 110 can be heat welded for the continuity of long joint lengths

Description

The Expoband 110 joint sealing system consists of two components; Expoband Hypalon Tape (Hypalon rubber strip) and Nitomortar AP, a moisture tolerant, non sag, two part epoxy adhesive.

Supply

1 mm thick, 25 m roll length (2 mm available on request)

Widths: 100 & 200 mm, custom sizes availabe on request

Proofex Conwrap

(Previously known as Conwrap)

Reinforced bituminous sealing tape for pre-cast concrete

Uses

Proofex Conwrap is an externally applied tape for sealing joints in pre-cast elements such as box culverts.

Proofex Conwrap is normally used in conjunction with internally placed Conseal CS231 sealing strip.

Advantages

- Lends itself to neat effective detailing
- High strength material provides excellent resistance to tearing and abrasions from back filling
- Aggressively bonds to concrete and metal structures
- Provides a permanent flexible watertight seal
- Has greater puncture resistance, thus reducing site damage possibilities
- Remains flexible; it will not become brittle and crack either with cold weather or with aging
- The thickness is constant throughout. It is factory controlled and not subject to variation by labour on-site
- It is thoroughly jointed on site by pressing and rolling laps together for a permanent, watertight seal

Description

Proofex Conwrap is a self-adhesive bituminous membrane incorporating a cross laminated HDPE film. The bitumen compounds used to manufacture the product are modified with SBS to promote maximum adhesion to the substrate. The HDPE film provides the product with excellent physical and application properties.

Supply

150 mm wide, 20 m long roll (other sizes made to order)

Refer to Technical Data Sheet (TDS) for application guidelines.

Conseal CS231

Low expansion sealing gasket for joints in pre-cast concrete

Uses

Conseal CS231 is the perfect product for sealing non-moving joints in pre-cast structures or between in-situ pours and existing concrete applications. It does not depend on moisture activation to work as its mechanical properties depend on the bond to each side of the joint, and not the expansion of the product itself.

Conseal CS231 is compressible within the joint and will provide an immediate and effective seal. Its follow on controlled expansion increases the seal and will accommodate small joint movements.

Conseal CS231 is ideal as sealing strips for manholes, pipe penetrations and box culverts.

It is a highly elastic gasket with substantial elongation capabilities. The heat of hydration assists with chemical bond to green concrete.

Advantages

- No site welding - just butt and mould together
- Easy to handle - just prime the face of the concrete
- A moderate amount of surface irregularity can be accommodated

Description

Conseal CS231 is a low expansion butyl based hydrophilic sealing gasket.

It is manufactured utilising a special mixing process which encapsulates the hydrophilic materials into a butyl rubber base thus creating a controlled moisture activated seal.

Controlled expansion in the presence of water means that the Conseal CS231 will not soften to the point where it will extrude out of the joint compared to bentonite based highly expansive hydrophilic waterstops which must be fully contained within non-movement construction joints to be effective.

Supply

Refer to Technical Data Sheet for profile and estimating details

Expandafoam Closed Cell Backing Rod

Medium density, closed cell polyethylene backing rod range

Uses

As a bond breaker/joint profile former to support elastomeric sealants in expansion joints between all common building materials

Advantages

- Compatible with all elastomeric sealants
- Readily compressible
- Low load transfer
- Non gassing
- No water absorption
- CFC free

Description

Expandafoam Closed Cell is a closed cell polyethylene foam rod supplied in circular section cords of varying diameters. Expandafoam Closed Cell is primarily used in expansion joints but is also suitable for use in any joint system requiring a readily compressible joint filler containing no migratory chemicals which could adversely affect joint sealants.

Supply	Suitable Joint width
6mm x 250m roll	4 to 5mm
10mm x 250m roll	6 to 8mm
13mm x 100m roll	9 to 11mm
15mm x 100m roll	12 to 13mm
20mm x 60m roll	14 to 17mm
25mm x 50m roll	18 to 20mm
30mm x 50m roll	21 to 27mm
40mm x 2m strip	28 to 35mm
50mm x 2m strip	36 to 45mm

Refer to Technical Data Sheet (TDS) for application guidelines.

Expandafoam Open Cell Backing Rod

Low density, open cell, polyurethane, sealant backing rod range

Uses

As a bond breaker/joint profile former to support elastomeric sealants in expansion joints between all common building materials

Advantages

- Time Saving – its flexibility, elasticity and round shape allows quick, efficient placement into both even and uneven joints. It can be stretched, squeezed or bent to conform to irregular surfaces. One size of diameter foam can be used in a range of joint sizes.
- Optimal Sealant Curing – open cell construction allows air to reach both sides of the sealant, ensuring uniform curing

Description

Expandafoam Open Cell Backer Rod is fabricated from medium density polyurethane foam. It is orange in colour.

Expandafoam Open Cell is primarily used in expansion joints which are to be subsequently sealed with one component polyurethane and similar sealants.

Supply	Suitable Joint width
16mm x 150m roll	<10mm
22mm x 100m roll	11 to 15mm
29mm x 60m roll	16 to 20mm
38mm x 30m roll	21 to 25mm
50mm x 20m roll	26 to 35mm

Expandafoam

(Previously known as Jointflex)

Closed cell polyethylene joint filler

Uses

Expandafoam is a closed-cell polyethylene joint filler for use as an expansion joint filler in brick and blockwork, isolation joints and hinge joints where a readily compressible low load transfer joint filler is required.

Expandafoam is also used as back-up strips for elastomeric sealants placed in joints of concrete floors subject to foot traffic and light wheel loads.

For joints subject to heavy loads or joints in water retaining structures, Hydrocell or Hydrocor should be used (see separate Technical Data Sheets).

- Back-up/bond breaker strip to support sealants
- Bridge decks, abutments, pier hinge joints
- Brick and blockwork in building superstructures

Advantages

- Readily compressible
- Low load transfer
- Easily cut on-site
- Excellent recovery after compression
- Non-absorbent
- Rot proof

Description

Expandafoam is a flexible, readily compressible, closed-cell polyethylene joint filler supplied in sheet form and in rolls of rectangular sections. Expandafoam can also be supplied with a self adhesive backing.

Estimating

Expandafoam is supplied in 2.4m x 1.2m sheets

Thickness: 10, 12, 15, 20, 25, 30, 40 and 50 mm.

Expandafoam is also supplied in 10mm thick x 25 metre rolls in the following sizes; 50 and 75 mm depth

Expandafoam is also supplied with Self Adhesive backing in 10mm thick x 25 metre rolls in the following sizes; 75 mm, 100mm 125mm 150mm, 200mm, 250mm and 300mm depth.

Refer to Technical Data Sheet (TDS) for application guidelines.

Hydrocell

(Previously known as Stiffjoint)

Non-absorbent, semi-rigid, polyethylene joint filler

Uses

For use in forming expansion joints in concrete, brickwork and blockwork and in the construction of water retaining and water excluding structures.

- Brickwork
- Deck slabs
- Basement structures and subways
- Retaining walls
- Raw and potable water reservoirs
- Sewage treatment works
- Irrigation channels and culverts

Advantages

- Non-absorbent
- Rot proof
- Non-tainting
- Resilient
- Bitumen free
- Heat resistant in applications up to 80°C

Description

Hydrocell is a semi-rigid, UV resistant, cross-linked, non-absorbent, closed-cell polyethylene sheet material.

Hydrocell is non-tainting and rot proof, therefore, suitable for use in conjunction with suitable joint sealants in structures for the storage of potable water.

Supply

Hydrocell is supplied in 2.0m x 1.0m sheet sizes and can be easily cut to the required size with a sharp knife or fine saw: thickness 10mm, 15mm and 20mm.

Hydrocell can also be supplied in various 10mm thick pre-cut strips - refer to Technical Data Sheet for details.

Hydrocor Type 3 & Type 106

Range of self expanding cork filler

Uses

Forming and filling expansion and static joints in:

- Water retaining structures
- Water excluding structures
- Roads, bridges and carparks
- Internal or external traffic areas

Advantages

- Supports sealants subject to hydrostatic pressure
- Expands to fill joint
- Will not extrude under pressure
- Light weight and easy to handle
- Resilient and waterproof

Description

Hydrocor comprises a range of joint fillers made from cork granules bound together with insoluble, synthetic resin. Hydrocor expands when exposed to moisture and provides the necessary rigid, void-free backing for elastomeric sealants subject to hydrostatic pressures.

Hydrocor Type 106: self-expanding joint filler and sealer.

Hydrocor Type 3: self-expanding joint filler only.

Supply

Hydrocor 106 and Hydrocor Type 3 are supplied in various thickness and lengths and are typically made to order to suit the customer's requirements.

Refer to Technical Data Sheet (TDS) for application guidelines.

Cellflex

Bitumen impregnated fibreboard, expansion joint filler board range

Uses

Cellflex is suitable for forming joints between in-situ and pre-cast concrete construction.

Forming structural expansion and separation joints in:

- Concrete pavements and floors
- Roads, ramps and runways
- Pedestrian areas
- Concrete retaining walls and bridges
- Concrete basement structures and subways

Advantages

- Easy to handle, cut and tamp
- Resilient
- Will not extrude under compression

Description

Cellflex is a compressible, non-extruding, bitumen impregnated, fibreboard expansion joint filler It is supplied in sheet form and is used to form and fill expansion joints in in-situ and pre-cast concrete construction.

Supply

Sheet sizes:

2.20m x 1.22m x 12mm thick

2.44m x 900mm x 9.5mm thick

Strip sizes:

9.5mm thick; 2.44m x 60mm, 2.44m x 75mm, 2.44m x 100mm, 2.44m x 125mm, 2.44m x 150mm, 2.44m x 200mm, 2.44m x 300mm

12mm thick: 2.44m x 100mm

Bond Breaker Tape

Polyethylene tape for isolating sealants from concrete and joint fillers

Uses

Used in joint sealing applications to ensure sealant only adheres to two faces of the joint.

Polyethylene tape for isolating sealant and eliminating adhesion to filler boards.

Description

A 250 micron black hi-tack polyethylene construction tape that has excellent conformability to irregular surfaces.

Bond Breaker Tape also provides an anti electrolytic barrier between dissimilar metals and has good adhesion to most building materials.

Supply

66m per roll, available in the following widths: 12mm, 15mm, 20mm, 25mm, 50mm

Refer to Technical Data Sheet (TDS) for application guidelines.

Waterproofing

Vandex index
Preformed Membranes

FOSROC

Section summary

Sheet Membranes

Waterproofing

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Section summary

Liquid Applied Membranes

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Section summary

Cementitious Waterproofing Products

Other

Refer to Technical Data Sheet (TDS) for application guidelines.

Notes

Proofex Engage

Pre-applied waterproofing membrane which mechanically bonds to poured concrete

Uses

A unique patented waterproofing membrane for a range of waterproofing applications including basements and substructures. It provides water vapour and gas protection to water excluding structures and protects concrete from aggressive ground salts and chemicals.

Advantages

- Unique mesh system bonds permanently to concrete, remaining in place even if settlement takes place
- Basement waterproofing protection to Grades 2, 3 and 4 as defined in BS8102:1990
- Protects concrete from attack from chemicals and aggressive ground salts
- Simple application - requires no primer or protection
- Inert product - no risk of a reaction with ponded water prior to concrete being poured

Description

Proofex Engage is a unique patented system comprising a complex cell mesh bonded to a poyethylene membrane which allows poured concrete to interlock with the membrane forming a tenacious mechanical bond. Proofex Engage is supplied with a selvedge on one side to provide sealed laps.

Supply

Roll size: 1.27 m x 30 m x 5 mm

Coverage

38.10 m^2 / roll

Proofex 3100

(Previously known as Emer-Proof HDPE)

Self adhesive bituminous membrane incorporating a cross laminated HDPE film

Uses

Proofex 3100 is used to waterproof foundations, basements, roofs, retaining walls and tunnels, box culverts and planter boxes.

Advantages

- Self-adhesive - allows installation without the use of heating torches and their associated problems
- Uniform thickness - eliminates any likelihood of thin application commonly found with liquid applied membranes
- Cross laminated High Density Polyethylene (HDPE) carrier film ensures dimensional stability whilst allowing adequate flexibility during installation and service
- Selvedge strip provides bitumen to bitumen seal at longitudinal joins ensuring watertight seal

Description

Proofex 3100 is a self-adhesive bituminous membrane incorporating a cross laminated HDPE film. The bitumen compounds used to manufacture the product are modified with SBS to promote maximum adhesion to the substrate. The HDPE film provides the product with excellent physical and application properties.

Supply

1 m wide, 20 m long roll

Coverage

Approx. 18.9 m^2 per 20 m roll allowing for overlaps

Refer to Technical Data Sheet (TDS) for application guidelines.

Proofex HD

(Previously known as Emer-Proof HD)

Woven polypropylene surfaced, bituminous self adhesive membrane

Uses

Proofex HD is used to waterproof bridge decks, ramps, car parks, and road pavements where the membrane will be overlaid with hot asphalt.

Advantages

- Self adhesive - allows installation without the use of heating torches while providing a fully bonded membrane system
- Suitable for the application of hot asphalt up to 165°C directly over the membrane
- Uniform thickness - eliminates any likelihood of thin application commonly found with liquid applied membranes
- Contains a polypropylene mesh for extra strength, puncture resistance and dimensional stability
- Selvedge strip provides bitumen to bitumen seal at longitudinal joins ensuring watertight seal

Description

Proofex HD is a self adhesive bituminous membrane incorporating a polypropylene mesh for added strength and heat stability. The bitumen compounds used to manufacture the product are modified with SBS to promote maximum elasticity. The top face of the membrane is treated with a protective film.

Supply

1 m wide, 20 m long roll

Coverage

Approx. 18.9 m^2 per 20 m roll allowing for overlaps

Proofex Sheetdrain 81

(Previously known as Emer-Proof Drain V)

Dimpled protection and drainage membrane in high-density extruded polyethylene with continuous filament yarn

Uses

Proofex Sheetdrain 81 is ideal for the protection of foundations and is perfect for dry" roof gardens, as it replaces the traditional aggregate draining layer and speeds up the work, making it less expensive and reducing both the weight and thickness of the roof garden. It is an excellent protective membrane for all construction sites where the technical component is important in terms of drainage quality and mechanical resistance.

Advantages

- Lightweight and easy to carry
- High drainage and filtering capacity
- Excellent separating layer
- Not damaged by chemical agents present in the soil
- Will not affect drinking water

Description

Proofex Sheetdrain 81 is made up of a layer of geo-textile fabric in polypropylene with continuous-filament yarn and a special dimpled membrane in high-density polyethylene (HDPE). Thanks to the special orthogonal drainage channels, it guarantees excellent drainage and creates an air chamber always free that allows for higher volumes of water to be drained compared to traditional dimpled membranes. The action of the geotextile fabric, in fact, ensures a constant filtering of soil particles and prevents the obstruction of drainage channels.

Supply

2 x 20 m roll

Coverage

40 m^2 per roll

Refer to Technical Data Sheet (TDS) for application guidelines.

Testudo 4mm Testudo Mineral

index
Preformed Membranes

Elastomeric, torch-applied membrane, reinforced with rot-proof non-woven single strand spunbond polyester fabric

Uses

Used as a continuous waterproofing membrane for foundations, basements, tunnels, roofs etc.

Testudo Mineral may be used as the top layer in a two layer membrane system or as a single roof membrane for both new and renovation work.

Advantages

- Uniform thickness - eliminating the likelihood of uneven application possible with liquid applied membranes
- Excellent elongation and resistance to heat, ageing, and puncture
- Excellent stability at both high and low temperatures
- Has excellent durability and flexibility at low temperatures
- Available in plain finish

Description

Testudo 4mm is a torch applied elastoplastomeric polymer-bitumen sheet membrane reinforced with a non-woven continuously extruded spunbonded polyester fabric. The bitumen compound is a mixture of distilled bitumen, plastomers and elastomeric polymers which give the membrane excellent durability and flexibility at both high and low temperatures. The lower face of the membrane is manufactured with a sacrificial “Flamina” polyethylene film which prevents sticking when the membrane is in storage.

Testudo 4mm has the upper face coated with uniformly distributed, fine, serigraph talc.

Testudo Mineral has the upper face self protected with a layer of coloured ceramic granules. A 75 mm side selvedge is provided along one edge of the roll to allow for adequate heat welding of the side laps.

Supply

1 m wide, 10 m long roll

Coverage

Approx. 9 m^2 per 10 m roll allowing for overlaps

Testudo 30

index
Preformed Membranes

Torch applied 5 mm thick high performance reinforced elastoplastomeric polymer waterproofing membrane

Uses

Testudo 30 membrane is characterised by a high resistance to puncture and is therefore particularly suitable for single layer waterproofing systems where high mechanical resistance is required, such as: bridge decks, roadways, viaducts, carparks, foundations, earthquake-proof foundations, subways and tunnels.

Advantages

- Uniform 5mm thickness – eliminating likelihood of uneven application
- 300 gm non-woven single strand spunbond polyester fabric reinforcement
- Excellent stability at both high and low temperatures
- Has excellent durability and flexibility

Description

Manufactured from distilled bitumen, selected for industrial use, with a high content of elastomeric and plastomeric polymer additives to obtain a phase inversion compound.

Testudo 30 is 5mm thick and reinforced with a high weight (300 gm), isotropic, thermally fixed, rot-proof, non-woven single strand spunbond polyester fabric. This ensures a very strong membrane with notable ultimate elongation and an optimal resistance to puncture and piercing.

The top face of Testudo 30 is coated with a uniformly distributed, fine, serigraphed talc, a patented treatment.

Supply

1 m wide, 10 m long roll

Refer to Technical Data Sheet (TDS) for application guidelines.

Fidia

index
Preformed Membranes

Elastomeric, torch applied membrane, reinforced with rot-proof non-woven polyester stabilised with glass mat

Uses

Fidia polyester is used as a continuous waterproofing membrane for foundations, basements, tunnels, roofs etc.

Advantages

- Uniform thickness - eliminating likelihood of uneven application possible with liquid applied membranes
- Polyester and glass fibre reinforcement ensure dimensional stability whilst allowing flexibility during application and service
- Excellent stability at both high and low temperatures
- High tear and impact resistance and excellent elasticity even at low temperatures
- Excellent elasticity even at low temperatures.
- Upper face of membrane treated with serigraph talc providing a prepared surface for a reflective coating or acrylic paint film if required

Description

An elastoplastomeric torch applied bituminous sheet membrane reinforced with a non-woven spunbonded fabric and longitudinally stabilised with glass fibre strands. The bitumen compounds used to manufacture the product are modified with plastomers and elastomers which give the membrane excellent durability and stability at both high and low temperatures. The upper face is treated with serigraph talc, the lower face with a non-stick sacrificial polyethylene film called Flamina. The lower face is embossed with small squares which assist in the recognition of the correct melting temperature. The embossing also ensures good vapour diffusion in spot bonded or loose laid applications.

Supply

1 m wide, 10 m long roll

Coverage

Approx. 9 m^2 per 10 m roll allowing for overlaps

Modo/P

index
Preformed Membranes

Elastoplastomeric, torch-applied membrane, reinforced with polyester and stabilised with fibre glass mat

Uses

Modo/P has been specifically designed for the waterproofing of foundations, basements, tunnels, terraces and roofs as a single layer or in a multi-layer system.

Advantages

- Uniform thickness – eliminating likelihood of uneven application
- Polyester fabric composite reinforcement ensures dimensional stability and high strength while maintaining flexibility during application and service
- Excellent stability at high and low temperatures
- Over laps are heat fused providing a homogenous joint eliminating chance of water ingress beneath membrane system
- Long lasting strength, elasticity and stability at high and low temperatures

Description

Modo/P is a reinforced rot-proof “non woven” polyester fabric composite stabilized with fibreglass mat. This ensures a very strong and elastic membrane offering optimal dimensional stability in hot conditions reducing the problem of the banana effect and the retraction of lap joints.

The top face of Modo/P is coated with a uniformly distributed, fine, serigraphed talc, a patented treatment. This enables quick unrolling and installation of the membrane with reliable and fast welding of the joints. The underside of the membrane is coated with Flamina and embossing. The flamina is a plastic film that melts when torched. The embossing maintains the pre-tension and optimal retraction of the film and allows the torch a greater surface area for faster and more reliable installation.

Supply

1 m wide, 10 m long roll

Coverage

Approx. 9 m^2 per 10 m roll allowing for overlaps

Refer to Technical Data Sheet (TDS) for application guidelines.

Defend H

index
Preformed Membranes

Elastomeric, torch-applied, plant root repellent membrane, reinforced with spunbound non-woven polyester fabric

Uses

Planters, roof gardens and basement walls where plant roots may damage the waterproofing.

Advantages

- Root resistant
- Flexible
- Resistant to puncture
- Chemical resistant
- Non leaching root repellent additive which does not harm plants
- High tear and impact resistant and excellent elasticity even at low temperatures

Description

Defend H is a polymer-bitumen rot resistant waterproofing membrane. The anti-root properties of the membrane provide a continuous barrier against roots even along the overlaps.

Supply

1 m wide, 10 m long rolls

Coverage

Approx. 9 m^2 per 10 m roll allowing for overlaps

Vapordiffuser

index
Preformed Membranes

Elastoplastomeric membrane with bitumen underside rivets, allowing water vapour to diffuse in base layer

Uses

Used for both new construction and renovation work, on damp surfaces where blisters can form in the waterproof layer. It can be installed as a visible layer directly on concrete or to renovate an old bituminous layer which is no longer waterproof. The water vapour is drained through aerators which are easy to install in the Vapordiffuser membrane. Vapordiffuser can also be used on substrates such as certain types of insulating panels that can move and damage the waterproof layer.

Advantages

- Air-space for greater diffusion
- Greater bond area than vented systems
- Waterproofing membrane and vented sheet in one application

Description

Vapordiffusor is an elastoplastomeric polymer-bitumen waterproofing membrane with deep bitumen rivets on the underside strengthened with reinforced fibreglass mat for the diffusion of humidity on damp concrete surfaces, old bitumen waterproofing layers, or for isolating the waterproofing layer from the movements of the insulating panels.

Vapordiffuser is the membrane designed to resolve the problem of vapour diffusion while guaranteeing an optimal adhesion in time, also on uneven surfaces. The underside of Vapordiffuser has a series of large bitumen bubbles covering approximately 35% of the surface with the exception of the overlapping side strip. The bubbles protrude from the membrane 3.5 - 4 mm and once they have been heated with the torch, become thick adhesive bitumen rivets that adapt the the uneven substrate, forming a strong bond.

Suppply

1 m wide, 7.5 m long roll

Coverage

Approx. 7 m^2 per 7.5 m roll

Refer to Technical Data Sheet (TDS) for application guidelines.

Rollbase

index
Preformed Membranes

Polyester fabric backed base sheet, for heat sensitive substrates, in multi-layer torch-on membrane systems

Uses

Rollbase is particularly suited as a base sheet for heat sensitive substrates in multi-layer torch applied bitumen membrane systems.

Rollbase has been specifically designed for use as a base sheet over timber or thermal insulation and may also be applied over old failed membranes.

Advantages

- Uniform thickness factory controlled in manufacture
- Reinforced with non-woven single strand spun bond polyester on the underside and fibreglass matt internally providing good dimensional stability and high strength
- Excellent cold flexibility -10°C
- The spun bond polyester fabric creates a micro air-space between the membrane and the substrate through which vapour may easily escape
- Manufactured with a selvage edge for overlapping purpose providing a continues waterproofing barrier against water ingress

Description

Rollbase has been manufactured from special elastoplastomeric polymer-bitumen with the underside coated with single strand spun bond polyester fabric and internally reinforced with fibreglass matt.

The inorganic reinforcement gives the sheet excellent dimensional stability while the polyester fabric guarantees the mechanical resistance necessary to resist tearing and puncture. The upper face is coated with a fine evenly spread serigraph talc, a treatment which allows easy unrolling of the product.

Supply

1 m wide, 10 m long roll

Autotene Base/P

index
Preformed Membranes

Thermally self adhesive 3 mm thick waterproofing base sheet membrane

Uses

Used as a base layer in multi layer systems. Designed to be applied to heat sensitive substrates such as thermal insulation, timber and old failed liquid applied membranes.

Advantages

- Self-heat adhesive membrane, no need to flame adhere to substrate
- Uniform thickness – eliminating likelihood of uneven application
- Excellent stability at both high and low temperatures
- Excellent durability and flexibility
- Polyester fabric composite reinforcement ensures dimensional stability and high strength while maintaining flexibility during application and service

Description

A waterproofing membrane which consists of distilled bitumen for industrial use, with a high content of elastomeric and plastomeric polymers. This produces a 'phase inversion' alloy, whose continuous phase is formed by the polymer. Bitumen is dispersed in this polymer. Here the characteristics are determined by polymer matrix and not the bitumen, even if the latter is the chief ingredient. The bitumen's performance is therefore increased, durability, resistance to high and low temperatures improved, whereas the already excellent qualities- the bitumen's adhesiveness and impemeability – remain unaltered.

Supply

1 m wide, 10 m long roll

Refer to Technical Data Sheet (TDS) for application guidelines.

Nitoproof 210

(Previously known as Emer-Proof Aqua Barrier Landscape)

High performance water based rubberised waterproofing membrane

Uses

- Waterproofing of retaining walls, planter boxes, basement walls, garden beds
- Waterproofing/damp proof sandwich membrane
- Repairing fine cracks and crazing of asphalt surfaces
- Keyjoints and dowel bars
- Patch and repairing old bitumen membranes
- As an adhesive for polystyrene protection boards

Advantages

- Fast drying
- Durable and tough
- Ready to use – no priming required on most substrates
- Adheres to most building substrates
- UV resistant (up to 18 months exposed)
- Non-toxic
- Solvent free and non-flammable

Description

Nitoproof 210 is a high performance single component water based rubberised waterproofing membrane. Developed for the Residential & Commercial construction industry. It is solvent free, non-flammable, and forms a highly flexible monolithic waterproofing membrane.

Supply

20 litre drum

Coverage

Nitoproof 210 should be applied in 2-3 coats and have a finished dry film thickness of 1.0 to 1.2 mm. Coverage will vary depending on the porosity and condition of substrate

Nitoproof 310

(Previously known as Emer-Proof Aqua Barrier Undertile)

Water based fibre reinforced, flexible, fast drying, latex waterproofing membrane, for under tile areas

Uses

Nitoproof 310 has been developed for waterproofing of internal and external under-tile applications, such as shower recesses, bathrooms, laundries, and balconies or terrace areas.

Advantages

- A tough flexible membrane
- Easy water clean up
- Odour free
- Environmentally friendly
- Solvent free - may be used in confined spaces
- May be tiled over with cement based adhesives: has excellent adhesion with Nitotile Flex tile adhesive
- Meets requirements of AS4858:2004 (Class III)

Description

Nitoproof 310 is a one component, water based, polyurethane modified, fibre reinforced, flexible, fast drying waterproofing membrane.

Nitoproof 310 can be recoated after 4-6 hours @20^{o}C, depending on the amount of coats applied and does not require the use of additional re-inforcement.

Supply

15 litre drum

Coverage

Approx. 10 m^2 per 15 litre (at a 750 - 1000 microns finished dry film thickness)

Refer to Technical Data Sheet (TDS) for application guidelines.

Nitoproof 410

(Previously known as Emer-Proof Aqua Barrier Quick Dry)

Polymer / cementitious two part waterproofing membrane

Uses

Nitoproof 410 is suitable for a wide range of under tile waterproofing applications such as:

- Foundations
- Wet areas and showers
- Podiums, terraces, balconies and deck areas
- Tiled pools & water features
- Water tanks, water storage areas, including potable conditions

Also is suitable for subterranean areas like retaining walls.

Advantages

- Handles ponding and permanently wet conditions, will not re-emulsify
- Flexible with good elongation properties
- Solvent free, non hazardous, VOC level < 42 ppm
- Compatible bonding properties for Nitotile Flex adhesive
- Suitable for internal and external surfaces
- Has a high shore A hardness

Description

Nitoproof 410 is a water based, fast drying, flexible two component, polymer modified cementitious waterproofing membrane.

Supply

Nitoproof 410 Part A of 25kg Kit 10 litre pail

Nitoproof 410 Part B of 25kg Kit 15 kg bag

Coverage

Nitoproof 410 Part A & B 25 kg kit: 17.0 m^2 @ 1.2mm

10.0 m^2 @ 2.0mm

Nitoproof 510

(Previously known as Emer-Proof Aqua Barrier Vapour Control)

Water borne epoxy moisture barrier for porous surfaces

Uses

As a moisture barrier coating to restrict passage of dampness through concrete and masonry substrates. Uses include interior faces of walls, floors, basements, tunnels, cellars, retaining walls, lift wells and underground car parks.

Advantages

- Solvent free
- Very low VOC Emission
- Anti-microbial formulation
- Very low odour
- Compatible with damp substrates
- Compatible bonding of most subsequently applied coatings, bonding agents, and water based adhesives
- Water based with no odour or volatile emissions
- Easy clean up using water
- Excellent adhesion to a variety of substrates including, concrete, brick, masonry, block, compressed fibre board, stone and timber
- Readily sanded if required

Description

Nitoproof 510 is a grey, two-component, matt to semi-gloss epoxy coating. When applied at 300 microns dry film thickness will provide a tenaciously bonded coating controlling the transmission of liquid moisture.

Supply

20 litre 2 component kits

Coverage

300 µm is the minimum theoretical dry film thickness to be achieved to ensure all the advertised performance properties of Nitoproof 510 are met. This is achieved by applying two coats at 3 m^2/litre each coat (undiluted) and is dependent upon substrate porosity as to the final dry film build achieved.

Total Coverage: 0.7 litre / m^2 (total 2 coats)

Refer to Technical Data Sheet (TDS) for application guidelines.

Nitoproof 750

(Previously known as Emer-Proof 750)

High performance, tough, flexible, polyurethane waterproofing membrane for external areas

Uses

The high elasticity, excellent bond and low water permeability of Nitoproof 750 make it ideal for a wide range of water / vapour proofing applications such as foundations, basements, tunnels, ground floors, suspended floors, roof terraces, balconies, patios, inspection pits.

Advantages

- Pitch free formulation
- CSIRO approval and meets AS4858:2004
- Readily applied direct from can
- Cures to give permanently flexible resilient barrier over a wide range of temperatures
- Excellent build properties enable application to both horizontal and vertical surfaces
- Can be applied to a wide range of substrates
- Outstanding barrier properties ensure protection against corrosive soil conditions
- Irreversible chemical cure eliminates melting and flow at high temperature
- Excellent resistance to embrittlement

Description

Nitoproof 750 is a single-component polyurethane liquid which cures by reaction with atmospheric moisture to give a tough elastomeric waterproof membrane. It is supplied as a thixotropic liquid which is easily applied at the recommended thickness to both vertical and horizontal surfaces.

Supply

15 litre drums

Coverage

1.5 litres/m² (total 2 coats); 10 m² / 15 litre drum

Nitoproof 810

(Previously known as Emer-Proof Aqua Barrier Advanced)

Highly flexible Class III, water based polyurethane waterproofing membrane

Uses

Nitoproof 810 is suitable for a wide range of waterproofing applications such as:

- Wet areas and shower alcoves – Class III Membrane System
- Podiums, terraces, balconies and deck areas – under toppings, tiles and other finishes
- Foot trafficable exposed roof top membrane and balcony decks (when over coated with Nitoproof Top Coat UV)
- Sandwich membrane between existing and new substrates e.g. old to new concrete; cement screeds over concrete and CFC surfaces
- General areas exposed to moisture and damp conditions.

Advantages

- Can be flood tested after 48 hours @ 23°C/50% RH
- Elastomeric and flexible with excellent elastic recovery
- Will not re-emulsify, once cured. Handles permanently wet conditions
- Low water absorption
- Low water vapour transmission properties
- Excellent adhesion to primed surfaces
- Compatible bonding properties for tile adhesives (such as Nitotile Flex), screeds and renders
- Low VOC; Non-flammable and non-hazardous

Description

Nitoproof 810 is a non-flammable single component polyurethane membrane designed for a wide range of waterproofing applications in the built environment.

Suitable for internal and external wet areas, enabling the direct fix of ceramic tiles, screeds, and renders over the dried membrane.

Supply

15 litre drums

Coverage

A minimum of 2 coats is recommended to be applied. A total minimum coverage of 1.5 litres/m² (2 coats @ 0.75 litres/m² per coat) is recommended.

Refer to Technical Data Sheet (TDS) for application guidelines.

Polyurea WHE110

Fast setting, hybrid polyurea-polyurethane elastomeric waterproof membrane

Uses

Anti-corrosion, waterproof and protective membrane for concrete and steel in a wide range of environmental conditions.

Typical applications include:

- Below grade waterproofing
- Waste water tank lining
- Roof waterproofing

Advantages

- Very low VOC
- Excellent chemical resistance, thermal stability and UV resistance (some discolouration will occur)
- Very fast turn-around time. The coated substrate can be put into service within an hour
- Excellent impact, abrasion and puncture resistance
- Seamless and monolithic, including field joints
- Low permeability values
- Can be applied at ambient temperatures from -30°C * to 70°C

Description

Polyurea WHE110 is a spray-applied, 100% solids, flexible, two-component, rapid curing hybrid Polyurea-polyurethane system, designed as a waterproofing and protective coating. It combines the advantages of seamless coating with very long life cycles and high durability.

Supply

Polyurea WHE110 Part A 22.5 kg and 225 kg

Polyurea WHE110 Part B 20 kg and 200kg

Coverage

1.0 to 2.0 litres / m^2 depending on specification.

Polyurea WPE110

Fast setting, pure polyurea elastomeric waterproof membrane

Uses

Anti-corrosion, waterproof and protective membrane for concrete and steel in a wide range of environmental conditions such as:

- Below grade waterproofing
- Tank coating / Waste water tank lining
- Roof waterproofing
- Aquarium lining

Advantages

- Very low VOC
- Excellent chemical resistance, thermal stability and UV resistance (some discolouration may occur)
- Very fast turn-around time. The coated substrate can be put into service within an hour
- Excellent impact, abrasion and puncture resistance
- Seamless and monolithic, including field joints
- Low permeability values
- Can be applied at ambient temperatures from -30°C * to 70°C
- Suitable for use in potable water applications - complies to AS/NZS 4020-2005

Description

Polyurea WPE110 is a spray-applied, 100% solids, flexible, two-component, rapid curing pure Polyurea system, designed as a waterproofing and protective coating. It combines the advantages of seamless coating with very long life cycles and high durability.

Supply

Polyurea WPE110 Part A 22.5 kg and 225 kg

Polyurea WPE110 Part B 20 kg and 200kg

Coverage

1.0 to 3.0 litres / m^2 depending on specification.

Refer to Technical Data Sheet (TDS) for application guidelines.

Vandex BB75-Z

Surface applied, cement based render, waterproofing barrier for positive and negative water pressure applications

Uses

Waterproofing of concrete and masonry structures both new and old. BB75-Z can be used on most masonry surfaces, including sandstone, provided surfaces are adequately prepared.

Ideal for application in sewerage environments and for solving the problem of water seepage through concrete and masonry in both new and old structures.

Vandex BB75-Z is ideal in applications where the high pressure face is not easily accessible. It is also ideal for waterproofing the inside face of swimming pools, sewerage processing tanks, concrete block walls and any masonry surface where crystal growth waterproofing will not be effective due to a lack of alkalinity in the substrate.

Advantages

- Abrasion resistant
- Applied to either the pressure or non-pressure face of concrete
- Approved for potable water contact
- Based on sulphate resisting cement (suitable for sewerage processing tanks)
- Non-toxic
- Suitable for permanent sunlight exposure after curing
- Tested to withstand a water head of 70 m
- Colour compatible with the host concrete
- Can be applied to damp concrete

Description

Vandex BB75-Z is a ready-mixed, cementitious, surface applied, waterproofing membrane consisting of grey sulphate resistant cement, graded quartz sands and inorganic additives. Vandex BB75-Z is waterproof and has been tested to a pressure of 7.0 bar (70 m water head).

Supply

25 kg bag

Coverage

3.0 - 6.0 kg / m^2; 4 - 8 m^2 / 25 kg bag

Vandex BB75E-Z

High performance, crack accommodating cement based render, waterproofing barrier

Uses

Waterproofing of concrete and masonry structures both new and old where live cracks are present. BB75E-Z can be used on most masonry surfaces, including sandstone, provided that the surfaces are adequately prepared.

Ideal for application in sewerage environments and for solving the problem of water seepage through concrete and masonry where live cracks are present in both new and old structures.

Vandex BB75E-Z is ideal in applications where the high pressure face is not easily accessible. It is also ideal for waterproofing the inside face of swimming pools, open sewerage processing tanks, concrete block walls.

Advantages

- Permanently flexible & accommodates dynamic crack movement to 0.5 mm
- Applied to either the pressure or non pressure face of concrete
- Based on sulphate resisting cement (suitable for sewerage processing tanks)
- Approved for potable water contact
- Suitable for permanent sunlight exposure after curing
- Tested to withstand a water head of 70 m
- Colour compatible with the host concrete
- Can be applied to damp concrete

Description

A ready-mixed, two component, polymer modified, cementitious, waterproofing membrane, made by mixing Vandex BB75-Z with Vandex Elasticiser PK 75. The BB75-Z powder component consists of grey sulphate resistant cement, graded quartz sands and inorganic additives. The Elasticiser PK 75 is the polymer component.

Supply

BB75-Z;	25 kg bag
Elasticiser PK75:	10 kg pail

Coverage

3.0 - 5.0 kg / $m^{2,}$, 7 - 11 m^2 / 35 kg mix

Refer to Technical Data Sheet (TDS) for application guidelines.

Vandex Cemelast

Flexible, surface applied, cement based render, waterproofing barrier

Uses

Waterproofing of concrete and masonry structures both new and old where live cracks are present. Vandex Cemelast is a flexible cementitious membrane and does not rely on crystal growth to achieve its waterproofing. As a result, Cemelast can be used on most masonry surfaces, including sandstone, provided that the surfaces are adequately prepared.

Vandex Cemelast is ideal for application in pH aggressive water and for solving the problem of water seepage through concrete and masonry where live cracks are present in both new and old structures.

Advantages

- Permanently flexible and accommodates dynamic crack movement to 0.3 mm
- Applied to either the pressure or non pressure face of concrete
- Non-toxic
- Suitable for permanent sunlight exposure after curing
- Tested to withstand a water head of 15 m
- Colour compatible with the host concrete
- Can be applied to damp concrete
- Suitable for use in potable water

Description

A ready-mixed, two component, polymer modified, cementitious, waterproofing membrane, made by mixing Vandex BB75-Z with Vandex Cemelast liquid. The BB75-Z powder component consists of grey sulphate resistant cement, graded quartz sands and inorganic additives. The Cemelast liquid is the polymer component.

Supply

BB75-Z;	25 kg bag
Cemelast liquid:	9 kg pail

Coverage

Pressureless water: 2.5 - 3.5 kg / m² in 2 coats

Water under pressure *:3.5 - 5.5 kg / m² in 2 - 3 coats

Vandex Concrete Grey

Concrete capillary penetrating, crystal growth sealing, cement based, waterproofing system

Uses

Vandex Concrete Grey can be applied to either the pressure or non-pressure faces of concrete and is excellent for solving the problem of water seepage through porous or cracked concrete in both new and old structures. Vandex Concrete Grey is ideal for treating concrete surfaces where the pressure face is not easily accessible.

Typical applications include; lift pits, basement walls, concrete floor slabs, balconies, water storage tanks, swimming pools, open sewerage treatment plants, canals and bridges etc.

Advantages

- Permanently active - seals future cracks
- Waterproofs static cracks and capillaries up to 0.3 mm width
- Non-toxic - Approved for potable water contact
- Compatible with the host concrete
- Suitable for permanent sunlight exposure after curing
- Tested to withstand a water head of 70 m
- Colour compatible with the host concrete
- Can be applied to damp concrete
- Priming not required to clean, well prepared concrete surfaces

Description

Vandex Concrete Grey is an in-depth cementitious waterproofing compound consisting of grey Portland cement and specially treated quartz sand blended with a range of active chemicals. Vandex Concrete Grey is pigmented to provide a more uniform colour which is more compatible with aged concrete.

Supply

25kg bag

Coverage

1.0 - 1.5 kg / m²

16 - 25 m² / 25 kg bag

Refer to Technical Data Sheet (TDS) for application guidelines.

Vandex Plug

Fast setting, cement based permanent mortar to plug running water leaks

Uses

Rapid setting, permanent plugging of water seepage through porous concrete and fast flowing water through cracks and construction joints in concrete and masonry.

Applications include plugging in-situ and precast concrete segments in tunnels, water storage tanks, sewerage mains and processing tanks, basements, below ground car parks, access chambers, building foundations and mines.

Vandex plug is effective in sealing water leaks through concrete, concrete block walls, brickwork, earthenware and all types of stone and masonry.

Advantages

- Highly abrasion resistant
- Stops water flow
- Sets in approximately 30 seconds after mixing
- Permanent durable repair
- Works on concrete, brick, stone and all types of masonry
- Can be installed underwater
- Non-toxic
- Can be mixed with water or used as a dry powder
- Colour compatible with the host concrete

Description

Vandex Plug is a one-component, rapid setting, ready-mixed, cementitious, waterproof plugging mortar which is ready for on-site application to leaking cracks and water seepage areas in concrete, stone and all types of masonry after mixing with water.

Supply

15 kg and 5 kg pails

Vandex Uni-Mortar 1-Z

Vandex

Cement based reprofiling and waterproofing repair mortar - (6mm to 12mm thickness)

Uses

Primarily used for the reprofiling of new and old concrete and masonry surfaces prior to the application of Vandex BB75-Z. Uni Mortar 1-Z is also suitable for use on its own as a waterproofing layer.

Uni Mortar 1-Z can be used on most masonry surfaces, including sandstone, provided that the surfaces are adequately prepared. It is ideal for application in sewerage environments. It can be applied to either the pressure or non-pressure faces of the concrete or masonry.

Ideal for reprofiling the inside walls of sewerage processing tanks where acid attack has caused some loss of the original concrete.

Other applications include; swimming pools, water storage tanks, and any masonry surface requiring the reprofiling of surfaces with depths in the range of 6 -12 mm, prior to the application of Vandex BB75-Z.

Advantages

- Highly abrasion resistant
- Approved for potable water contact
- Based on sulphate resisting cement (suitable for sewerage processing tanks)
- Non-toxic
- Suitable for permanent sunlight exposure after curing
- Colour compatible with the host concrete
- Can be applied to damp concrete

Description

Vandex Uni Mortar 1-Z is a ready-mixed, cementitious, surface applied, waterproofing and repair mortar consisting of grey sulphate resistant cement, graded quartz sands and inorganic additives. Vandex Uni Mortar 1-Z is waterproof and has been tested to a pressure of 7.0 bar (70 m water head) when applied at a thickness of 10 mm.

Supply

25 kg bag

Coverage

12 - 24 kg / m^2, 1 - 2 m^2 / 25 kg bag

Refer to Technical Data Sheet (TDS) for application guidelines.

Vandex Construction Joint Tape

Waterproofing tape for construction joints and cracks

Uses

Vandex Construction Joint Tape, in combination with Vandex BB 75E-Z or Cemelast flexible waterproofing slurry, forms an excellent and durable seal of construction joints and cracks, in damp concrete conditions.

Areas of application: construction joints and cracks. Vandex Construction Joint Tape is resistant to: hydrostatic pressure on the positive side and on the negative side (only with appropriate support).

On the negative side movement cracks should be routed out first and filled with Vandex Uni Mortar. Water leaks should be waterproofed with Vandex Plug first.

Advantages

- Economical and safe
- Can be applied onto damp substrate
- Resistant to hydrostatic pressure
- Permanently flexible
- Can be bonded to concrete surfaces with Vandex BB75E-Z waterproofing slurry
- Simple tape joints bonded with Vandex BB75E-Z

Description

Construction Joint Tape is a synthetic rubber strip, approximately 0.7 mm thick. It is covered on both sides with an alkali-resistant and flexible polyester fabric mat, which forms a web on the edges.

The properties of the fabric mat and synthetic rubber combine to ensure a strong bond with the concrete surface, maintaining excellent elasticity of the tape.

Supply

Thickness	approx. 0.7 mm
Total width	approx. 180 mm
Width of fabric web	approx. 30 mm
Roll length	30 m

Helasto-ring

index
Preformed Membranes

Plastic support ring for concrete pavers with leveling adjustment

Uses

Helasto-ring is a plastic mounting for square paving slabs in precast concrete.

Helasto-ring is designed to be easily divided into fractions:

- for the row of slabs adjacent to the surrounding wall, the half ring is used
- for the slabs at the angle, the fourth ring is used
- to set the three slabs on an external angle, the three quartes ring is used

The leveling disk is a Helasto-ring accessory that is applied like a wedge, in order to stabilise the slabs that are not sufficiently flat, or when the surface is irregular.

Generally it is used in quarters and put between the Helasto-ring and the corner of the unstable slab.

Description

Concrete terraces cast directly onto waterproofing membrane can cause considerable problems.

During the day the paving, heated by the sun, expands; at night, when the sun's heat ceases, the paving cools and therefore contracts.

This alternating movement, which is concentrated along the expansion joints of the floor, is transmitted then to the underlying waterproofing membrane, damaging it through fatigue.

To eliminate this problem it is necessary to isolate the floor the floor from the waterproofing underneath.

With Helasto-ring, the pavement does not touch the waterproofing membrane, but is separated from it by a hollow space; in this way, the pavement can expand and contract without damaging the water-tight membrane.

Refer to Technical Data Sheet (TDS) for application guidelines.

Nitotile Flex

(Previously known as Emer-Proof Tilebond Flex)

Rubber modified, flexible, off-white, cement based, ceramic tile adhesive for use with Nitoproof membranes

Uses

Nitotile Flex can be used both internally and externally on walls and floors. It can be used to bond a variety of different tiles to a variety of different substrates. It is fast setting, meaning you can commence grouting 16-24 hours @ 20°C after completion of tiling..

Advantages

- Complies with ISO/AS13007.1:2013 - Class C2S1
- Internal / external on wall and floor surfaces
- Used for fixing low porosity tiles
- Fast setting

Description

Nitotile Flex is a premium grade, rubber modified, flexible white cement based tile adhesive. It is designed for bonding all types of ceramic, stone and mosaic tiles with the exception of moisture sensitive stone like marble, onto a variety of substrates like concrete, render, rendered brickwork, block work, Gyprock, plasterboard and fibre cement surfaces. Nitotile Flex can be used to fix tiles over most water based waterproofing membranes. However it is advisable to contact the manufacturer prior to commencing..

Supply

20 kg

Coverage

A 20 kg bag of Nitotile Flex will cover approximately 7 to 9 m^2 using a 10 mm notched trowel

Nitoband

(Previously known as Emer-Proof EJB)

Superior sealing system for critical joint areas in place of traditional bond-breaking sealants and tapes

Uses

The Nitoband System has been developed as a superior alternative to traditional bond breaking methods for sealing critical movement zones. The Nitoband System is used in conjunction with liquid applied waterproofing membranes and is suitable for internal, external underground and fully immersed applications.

Advantages

- Can be used with Nitoproof water based single or 2 part liquid membrane systems
- Suitable for sealing movement joints and small expansion joints up to 25mm
- Time efficient and simplified installation – no time wasted waiting for joint sealants to sufficiently skin and cure
- High elongation and movement capabilities - able to withstand movement in both longitudinal and lateral directions
- High density, high strength rubber composition with superior water, chemical and tear resistance
- Waterproof in its own right, which offers double protection when combined with a Nitoproof water based liquid membrane over-laid

Description

The Nitoband System is a combination of acrylonitrile butadiene rubber tape and detailing accessories designed and developed as a superior bond breaking alternative to traditional methods of sealing critical movement zones when used in conjunction with liquid applied waterproofing membranes.

Supply

Nitoband Tape	120mm wide x 10m Roll
Nitoband Corner Internal 90°	135mm x 135mm
Nitoband Corner External 270°	135mm x 135mm
Nitoband Corner Adjustable Internal	135mm x 135mm
Nitoband Pipe Detailing Square Small	For pipes <50mm
Nitoband Pipe Detailing Square Medium	For pipes < 110mm
Nitoband Pipe Detailing Square Large	For pipes < 150mm

Refer to Technical Data Sheet (TDS) for application guidelines.

Waterstops

Section summary

Waterstop Systems

Notes

Supercast PVC Waterstops

Centrally and externally placed, PVC waterstop profiles for use in cast in-situ concrete

Uses

Water retaining: reservoirs, water towers and sewage tanks, dams, culverts, canals and spillways, swimming pools, bunded areas surrounding liquid retaining tanks

Water excluding: basements and underground car parks, tunnels and subways, abutments and retaining walls, roof decks and podium areas

Advantages

- Range of profiles to suit every need
- Fully continuous 4 bulbed network
- Simple on-site jointing using wleding iron and jigs
- Full range of factory fabricated intersection pieces
- Complies with AS 4020

Description

Supercast waterstops are extruded from a high grade PVC compound which has been formulated to give excellent flexibility and longevity characteristics. They are available as straight lengths and factory produced intersections or as a factory prefabricated segment of a network to minimise site jointing.

The range consists of centrally placed Supercast Hydrofoil profiles as well as externally placed Supercast Rearguard S and Supercast Rearguard R profiles.

Supply

Profile	Roll length
Hydrofoil 150mm	15m
Hydrofoil 200mm	15m
Hydrofoil 250mm	12m
Rearguard R 150mm	12m
Rearguard R 200mm	12m
Rearguard R 250mm	12m
Rearguard S 250mm	12m

Refer to Technical Data Sheet (TDS) for application guidelines.

Earth Shield TPV/TPER

Chemical resistant waterstops

Uses

Thermoplastic elastomeric rubber waterstops (ie. weldable TPV/TPER) are a specialty product for critical chemical, industrial and environmental applications. Typical applications are:

- Primary and secondary containment
- Refineries
- Mining facilities
- Fueling depots
- Chemical plants and acid storage

Advantages

- Outstanding chemical resistance to a range of deleterious fluids such as acids, oils and other aqueous solutions
- Excellent retention of physical properties at elevated temperatures
- Superior ozone and weathering resistance
- No harmful plasticisers (phthalates)
- EPA compliant certificate (NSF standard 61)
- Prefabricated intersections

Description

Earth Shield is used as a fluid tight diaphragm embedded in concrete, across and along the joint in what is considered a standard traditional installation method.

Unlike polyvinyl chloride (PVC) waterstop Earth Shield contains no plasticiser, stabiliser or filler to leech out when exposed to chemicals, fuels and aggressive industrial fluids. Detailed performance listing is available on request.

Supply

Refer to Technical Data Sheet for profile and estimating details.

Hydrotite

Premium grade, water swellable, waterstop range for use in cast in-situ concrete

Uses

Hydrotite is to be used where watertight integrity is the prime issue. Typical applications include sewerage treatment plants, pipe penetrations, subway stations, water treatment plants, swimming pools, basements, reservoirs, tunnels, pits.

Advantages

- Self-adhesive properties makes installation much easier and reduces construction costs
- Co-extruded design means expansion is directed across the joint for maximum seal
- Unaffected by repeated wet and dry cycles
- No site welding as is required for traditional PVC waterstops
- Has a delay coating to help prevent premature expansion
- No need for special intersections, joining is by simple butt joins
- Can be applied to rough surfaces using Leakmaster gun grade waterstop

Description

Hydrotite is a hydrophilic waterstop which exibits excellent durability and water sealing capacity. It expands as it absorbs water and fills up concrete joint gaps conforming to the gap variation, ensuring excellent sealing. Hydrotite is based on the technology of hydrophilics, a material which expands in a controlled fashion by approximately eight times by volume in the presence of moisture to create a pressure seal within the joint.

Supply

Hydrotite CJ0725-3K ADH	10m roll 7mm x 25mm
Hydrotite CJ1020-2K ADH	10m roll 10mm x 20mm
Hydrotite DSS0220 ADH	25m roll 2mm x 20mm
Hydrotite RSS1610D	10m roll 16mm diameter
Hydrotite RSS2014D	10m roll 20mm diameter
Hydrotite RSS2205D	10m roll 22mm diameter
Hydrotite RSS2519D	5m roll 25mm diameter

Refer to Technical Data Sheet (TDS) for application guidelines.

Leakmaster

Gun applied, water-swellable, waterstop paste

Uses

- For bonding Hydrotite profiles to rough concrete surfaces
- Water sealing joints of cast in-situ concrete
- Water sealing around "H" section steel joists
- Sealing rough surfaces
- Shotcrete
- Box culverts
- Can support 20m heads of water
- Excellent for pipe penetration
- To provide sealing around traditional PVC waterstops to provide a 'belts and braces' seal before a concrete pour

Advantages

- Easy application to smooth and uneven surfaces as a moisture-cure one component type water-swelling sealant
- Physical properties: after hardening, it has better physical properties than those of conventional putty type sealants
- Water swelling up to approx. 2 times in volume as a result of its water absorption and swelling mechanisms. Provides excellent water sealing properties (for construction joints) without losing its rubberlike elasticity

Description

Leakmaster is a one component polyurethane water-swelling sealant with excellent and unique physical properties. Its development was based on technology and experience in water-swelling waterstops i.e. Hydrotite.

It can be applied to joints, etc., in civil engineering, construction and water services for seals where conventional solid waterstops cannot be applied easily.

Supply

320 ml cartridge

Refer to Technical Data Sheet (TDS) for application guidelines.

Superswell 47B

High expansion butyl bentonite based hydrophilic waterstop

Uses

Superswell 47B is an economical product for sealing less critical In-situ joints that must be water-tight.

Superswell 47B is recommended for use in non-movement joints eg horizontal construction joints between floor slabs and cast in situ walls such as lift overrun pits, retaining walls and similar.

Advantages

- Requires no site welding
- Easy to handle
- Conforms easily to irregular surfaces
- Does not require split-forming or splicing
- Superswell 47B is non-toxic and requires no special handling instructions

Description

Superswell 47B is a high expansion Butyl Bentonite based hydrophilic waterstop suitable for non-movement construction joints where it is fully contained within the joint.

Its volumetric expansion (1.6 times) occurs in all directions and therefore containment is critical. When fully immersed in water, swelling commences within 2 days and reaches full expansion in approximately 10 days, thus placement and concrete cover time is critical in inclement weather conditions.

Supply

25mm x 19mm (Rectangular Shape) 5 metre rolls

12mm x 12mm x 19mm (Trapezoidal Shape) 7.5 metre rolls

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Fosroc is a world leader in the delivery in virtually any type of construction project, combining high quality products, expert technical support, customer service and innovation.

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