07 00 00 Thermal & Moisture Protection

07 27 00 Air Barriers

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R-GUARD WET-FLASH Joint & Seam Filler

fiber reinforced fill coat and seam treatment

Joint & Seam Filler is part of the family of PROSOCO R-Guard® products developed to prevent the movement of water and air through building envelopes. Utilize Joint & Seam Filler to prepare open joints, seams and cracks in conjunction with R-Guard FastFlash® before installing any R-Guard Primary Air & Water-Resistive Barrier or other waterproofing and air barrier components in new or existing wall assemblies.

OVERVIEW

PROSOCO R-Guard® Joint & Seam Filler is a gungrade, crack and joint filler, adhesive and detailing compound that combines the best of silicone and polyurethane properties. This single-component, fiber-reinforced, Silyl-Terminated-Poly-Ether (STPE) is easy to gun, spread and tool.

Use Joint & Seam Filler to fill openings and create transitions where flexible reinforcement is required to bridge larger gaps and provide continuous support of fluid-applied flashing membranes, waterproofing or air barrier components.

Suitable for all climates, Joint & Seam Filler bonds directly to damp or dry surfaces and cures under a variety of weather conditions. It dramatically reduces surface preparation time by eliminating the need for reinforcing tapes at sheathing joints, inside and outside corners.

Use Joint & Seam Filler as part of a continuous, building-wide air barrier system, or to prepare surfaces for conventional waterproofing or air barrier components.

SPECIFICATIONS

For all PROSOCO product specifications visit www. prosoco.com.

ADVANTAGES

- Streamlines preparation by eliminating the need for joint reinforcing tapes.
- Silane functional polymer provides superior long term adhesion, crack filling and weathering characteristics.
- Bonds to most common building materials without priming.
- Single component formulation saves time and requires no mixing.
- Fills open joints and seams up to 1 inch in
- Bonds and cures in wet weather and on damp substrates. Tolerates rain immediately after application.
- May be fully exposed to UV and weather for up to 12 months. If longer, contact for inspection.
- Compatible with most sealants and waterproofing or air barrier components.
- Solvent free. Isocyanate free. Phthalate free. Complies with all VOC regulations.
- No shrinkage. No staining. No yellowing.
- Breathable allows damp surfaces to dry.
- Will not support mold growth.
- Service temperatures from -75°F to 300°F (-59°C to 149°C).
- Passes ASTM E84, Standard Test Method for Surface Burning Characteristics of Building Materials.
- Illustration depicting the use of PROSOCO R-Guard® products are available at www. prosoco.com by downloading the R-Guard Installation Guidelines.

Limitations

- Not for use as a liquid flashing membrane. Use R-Guard FastFlash®.
- Not for use in place of appropriate through-wall flashina.
- Not for use below grade or in locations which are continuously immersed in water.

REGULATORY COMPLIANCE

VOC Compliance

PROSOCO R-Guard® Joint & Seam Filler is compliant with the following national, state and district VOC regulations:

- X US Environmental Protection Agency
- X California Air Resources Board SCM Districts
- X | South Coast Air Quality Management District
- X | Maricopa County, AZ
- X | Northeast Ozone Transport Commission





TYPICAL TECHNICAL DATA

R-Guard JOINT & SEAM FILLER		
FORM	pale red, gun-grade sealant	
SPECIFIC GRAVITY	1.40 - 1.50	
рН	Not applicable	
WT/GAL	11.8 lbs	
TOTAL SOLIDS	99%	
VOC CONTENT	30 g/L maximum	
FLASH POINT	No data	
FREEZE POINT	No data	
SHELF LIFE	1 year in unopened, factory-sealed container	
CURED PROPERTIES		
Hardness, Shore A	40-50	
Tensile Strength	70 psi	
Elongation at Break	180%	
Water Vapor Transmission	19 perms @ 20 mils	
Peel Strength	>25 pli	
Accelerated Weathering	Passes	
Shrinkage	None	
Corrosive Properties	Non-corrosive	
Surface Burning ASTM E84	Flame Spread: 15 Smoke Developed: 5 NFPA and ICC Class A Building Material	
UNCURED PROPERTIES		
Cure Rate	1/8-inch thickness/24 hours	
Tack-Free Time	20-40 minutes	

Please refer to the R-Guard Joint & Seam Filler Product Test Results document for a complete list of performance test results.

Illustrations depicting the use of PROSOCO R-Guard® products are available at www. prosoco.com by downloading the R-Guard Installation Guidelines.

PREPARATION

To ensure best results, apply to clean surfaces free of contaminants. Chemical residues, surface coatings or films may adversely affect adhesion.

Protect people, vehicles, property, plants and all other surfaces not intended to receive Joint & Seam Filler.

Remove and replace damaged sheathing.

Any gaps or joints greater than 1 inch should be structurally repaired or readied for an appropriate transition membrane.

In rough openings, prime all raw gypsum board edges with R-Guard GypPrime.

Surface and Air Temperatures

Surface and ambient temperatures should be 40°F (4°C) and rising and below 110°F (43°C) during application and drying. Wind and high temperatures will accelerate drying.

Hot Weather Precautions: If air or surface temperatures exceed 95°F (35°C), apply to shaded surfaces and before daytime air and surface temperatures reach their peak. Hot surfaces may be cooled with a mist of fresh water. Keep containers closed and out of direct sunlight when not in use. Cold Weather Conditions: May be applied to frost-free substrates at temperatures below 32°F (0°C). Product will not start curing and drying until temperature rises to and remains above 32°F (0°C). Low Humidity Conditions: Curing may take longer than 12 hours. Lightly misting treated surfaces with fresh water will accelerate curing. Uncured material may delay construction.

Though Joint & Seam Filler may be applied to damp surfaces and tolerates rain immediately after application, do not apply to surfaces with standing water or frost.

Equipment

Apply using a professional caulking gun. Use a DRY joint knife, trowel or spatula to tool and spread the product. Do not use soapy water when tooling or spreading.

ALWAYS TEST

ALWAYS TEST a small area of each surface to confirm suitability and desired results before starting overall application. Test with the same equipment, recommended surface preparation and application procedures planned for general application.

Storage & Handling

Store in a cool, dry place. Keep container tightly closed when not dispensing. Do not open container until preparation work has been completed. Do not alter or mix with other chemicals. When stored at or below 80°F (27°C) R-Guard Joint & Seam Filler has a shelf life of 12 months after the date of manufacture. This shelf life assumes upright storage of factory-sealed containers. Do not double stack pallets. Dispose of unused product and container in accordance with local, state and federal regulations.

APPLICATION

Before use, read "Preparation" and "Safety Information."

Dilution

Apply as packaged. Do not dilute or alter, or use for applications other than specified. No mixing required.

Coverage Rates

Coverage varies based on surface texture and irregularities.

PROSOCO R-Guard® Joint & Seam Filler is sold in 29-oz tubes and 20-oz sausages.

Fill Estimator (overlap 1-inch on each side of sheathing joint)			
Joint & Seam Filler	Estimated Coverage (joint width varies 0.0—0.25 inch)		
20—30 mils	60.5—93.5 lineal feet per 29-oz tube		
	38.5—60.5 lineal feet per 20-oz sausage		





Application Instructions

PREPARE

Prepare all surfaces as described above under "Preparation." Once preparation is complete, cut open tip of threaded fitting, install nozzle and cut nozzle to desired opening.

Filling Joints, Seams and Cracks

- 1. Apply a thick bead of Joint & Seam Filler to all sheathing joints, seams and cracks. Joints up to 1/2 inch in width can be treated without backer rod. Treat joints ranging from 1/2 to 1 inch with backer rod before applying Joint & Seam Filler. Joints larger than 1 inch must be structurally improved or addressed with an appropriate transition membrane. On plywood, spot wood knots, deep cracks or surface irregularities.
- 2. Use a DRY joint knife, trowel or spatula to tool and spread the product. Spread 1 inch beyond seam at each side to a thickness of 20—30 mils.
- 3. Allow to skin before installing other waterproofing or air barrier components.

Waterproofing Fastener Penetrations

- Spot fastener penetrations with Joint & Seam Filler, as necessary. On plywood, spot wood knots, deep cracks or surface irregularities.
- 2. Allow to skin before installing other waterproofing or air barrier components.

Detailing Rough Openings

- 1. Prime all raw gypsum board edges with R-Guard GypPrime.
- 2. Apply a thick bead of Joint & Seam Filler to all inside corners, cracks, joints and seams within the rough opening.
- 3. Use a DRY joint knife, trowel or spatula to tool and spread the product. Spread 1 inch beyond seam on each side to a thickness of 20—30 mils.
- 4. Allow to skin before installing R-Guard FastFlash®.

PROTECT

Apply PROSOCO R-Guard® Spray Wrap, MVP, Cat 5®, Cat 5® Rain Screen or other waterproofing or air barrier component pursuant to manufacturer instructions.

TRANSITION

Flashing Transitions

- Fasten the flashing leg to the vertical wall surface using a bead of Joint & Seam Filler or conventional methods. Fill any voids between the flashing leg and the vertical wall with Joint & Seam Filler.
- Apply and tool Joint & Seam Filler as needed to direct water from the vertical wall to the face of the flashing.
- 3. Apply and tool Joint & Seam Filler at inside corners to ensure positive drainage.
- 4. Allow treated surfaces to skin before installing R-Guard FastFlash®.
- Use Joint & Seam Filler to fill any remaining surface imperfections to provide positive drainage and continuous support of fluid-applied flashing membranes.

Curing and Drying

At 70°F (21°C) and 50% relative humidity, product skins within 30 minutes and dries in 4 hours. Paintable with most paints after 2 hours.

Joint & Seam Filler is moisture curing. Low temperatures and low relative humidity slow dry time. High temperatures and high relative humidity accelerate dry time.

Cleanup

Clean tools and equipment with mineral spirits or similar solvent immediately after use. Follow all safety precautions. Remove cured Joint & Seam Filler mechanically using a sharp-edged tool.

BEST PRACTICES

Surfaces should be clean, free of standing water and in good repair before application. Most building surfaces can be cleaned using Enviro Klean® 2010 All Surface Cleaner. Information is available by calling Technical Customer Care at 800-255-4255.

In rough openings, prime raw gypsum board edges with R-Guard GypPrime.

For best results, spread and tool Joint & Seam Filler while still wet, within 2—3 minutes of gun application.

Hot Weather Precautions: If air or surface temperatures exceed 95°F (35°C), apply to shaded surfaces and before daytime air and surface temperatures reach their peak. Hot surfaces may be cooled with a mist of fresh water. Surfaces may be damp but must be free of standing water before application. Keep containers closed and out of direct sunlight when not in use. Cold Weather Conditions: May be applied to frost-free substrates at temperatures below 32°F (0°C). Product will not start curing and drying until temperature rises to and remains above 32°F (0°C). Low Humidity Conditions: Curing may take longer than 12 hours. Lightly mist treated surfaces with fresh water to accelerate cure. Uncured material may delay construction.

Use Joint & Seam Filler may be used to adhere and gasket mechanically fastened building components. Use FastFlash® to counter flash.

PROSOCO R-Guard® Joint & Seam Filler, FastFlash® and AirDam® are recommended for improved performance of R-Guard Spray Wrap, MVP, VB, Cat 5® and Cat 5® Rain Screen waterresistive barrier coatings.

Illustrations depicting the use of PROSOCO R-Guard® products are available at www.prosoco. com by downloading the R-Guard Installation

To schedule field technical support, contact your PROSOCO Technical Customer Care toll-free at 800-255-4255. Field visits by PROSOCO personnel are for the purpose of making technical recommendations only. PROSOCO is not responsible for providing job site supervision or quality control. Proper application is the responsibility of the applicator.





SAFETY INFORMATION

PROSOCO R-Guard® Joint & Seam Filler contains calcium carbonate and may cause eye and skin irritation. Use with adequate ventilation, safety equipment and job site controls during application and handling. Read the full label and MSDS for precautionary instructions before use.

First Aid

Ingestion: DO NOT induce vomiting. DO NOT give anything by mouth to an unconscious or convulsing person. Get immediate medical attention.

Eye Contact: In case of contact with eyes, lips or mouth, flush thoroughly with water. If irritation develops, consult a physician.

Skin Contact: Wash with fresh water. Get medical attention if irritation persists.

Inhalation: Remove to fresh air. If victim is having trouble breathing, remove to medical care.

24-Hour Emergency Information: INFOTRAC at 800-535-5053

WARRANTY

Information and recommendations are based on our research and the research of others, and are believed to be accurate. No guarantee of their accuracy is made because we cannot anticipate every application or variations encountered in building surfaces, job conditions and methods used. The purchasers shall make their own tests to determine the suitability of such products for a particular purpose.

PROSOCO, Inc. warrants this product to be free from defects. Where permitted by law, PROSOCO makes no other warranties with respect to this product, express or implied, including without limitation the implied warranties of merchantability or fitness for particular purpose. PROSOCO's liability shall be limited in all events to supplying sufficient product to re-treat the specific areas to which defective product has been applied. Acceptance and use of this product absolves PROSOCO from any other liability, from whatever source, including liability for incidental, consequential or resultant damages whether due to breach of warranty, negligence or strict liability. This warranty may not be modified or extended by representatives of PROSOCO, its distributors or dealers.

CUSTOMER CARE

Factory personnel are available for product, environmental and job-safety assistance with no obligation. Call 800-255-4255 and ask for Customer Care - technical support.

Factory-trained representatives are established in principal cities throughout the continental United States. Call Customer Care at 800-255-4255, or visit our web site at www.prosoco.com, for the name of the PROSOCO R-Guard® representative in your area.





ICC-ES AC2121: Acceptance Criteria for Water-Resistive Coatings Used as Water-Resistive Barriers Ove	r Exterior
Sheathing (*Joint & Seam Filler Tested as Part of an Assembly)	

Test	Method	Criteria	Results
*Tensile Bond	ASTM C 297	Minimum 15 psi (105 kPa)	Pass
*Freeze-Thaw	ICC-ES AC212	No cracking, checking, crazing, erosion, delamination or other deleterious effects	Pass
*Water Resistance	ASTM D 2247	No cracking, checking, crazing, erosion, delamination, or other deleterious effects	Pass
*Water Penetration	ASTM E 331	No visible water penetration at sheathing joints as viewed from back of the panel	Pass
*Structural, Racking, Restrained Environmental Conditioning & Water Penetration	ASTM E 1233A ASTM E 72 ICC-ES AC212 ASTM E 331	No cracking of the coating	Pass
*Weathering	ICC-ES AC212 AATCC ² 127	No cracking of the coating; no water penetration	Pass

ABAA: Air Barrier Association of America Acceptance Criteria for Liquid Applied Membranes (*Joint & Seam Filler Tested as Part of an Assembly)

Test	Method	Criteria	Results
*Air Leakage of Air Barrier Assemblies	ASTM E 2357	$\leq 0.2 \text{ L / s·m}^2 \text{ at } 75 \text{ Pa}$ ($\leq 0.04 \text{ cfm / ft}^2 \text{ at } 1.57 \text{ psf}$)	Pass: 0.0105 L / s·m2 at 75 Pa (0.0021 cfm / ft2 at 1.57 psf)

Fire Testing (*Joint & Seam Filler Tested as Part of an Assembly)

Test	Method	Criteria	Results
*Fire Propagation Characteristics of Exterior Non-load-bearing Wall Assemblies	NFPA ³ 285	Must resist flame propagation and flame spread	Pass ⁴
Surface Burning Characteristics	ASTM E 84	Criteria for ICC and NFPA Class A Building Material: Flame Spread ≤ 25 Smoke Developed ≤450	Meets Class A Building Material Flame Spread: 15 Smoke Developed: 5

All testing conducted by independent, accredited laboratories.

1: International Code Council Evaluation Service Acceptance Criteria 212 2: American Association of Textile Chemists and Colorists 3. National Fire Protection Association 4. Southwest Research Institute Report No. 01.17421.01.001