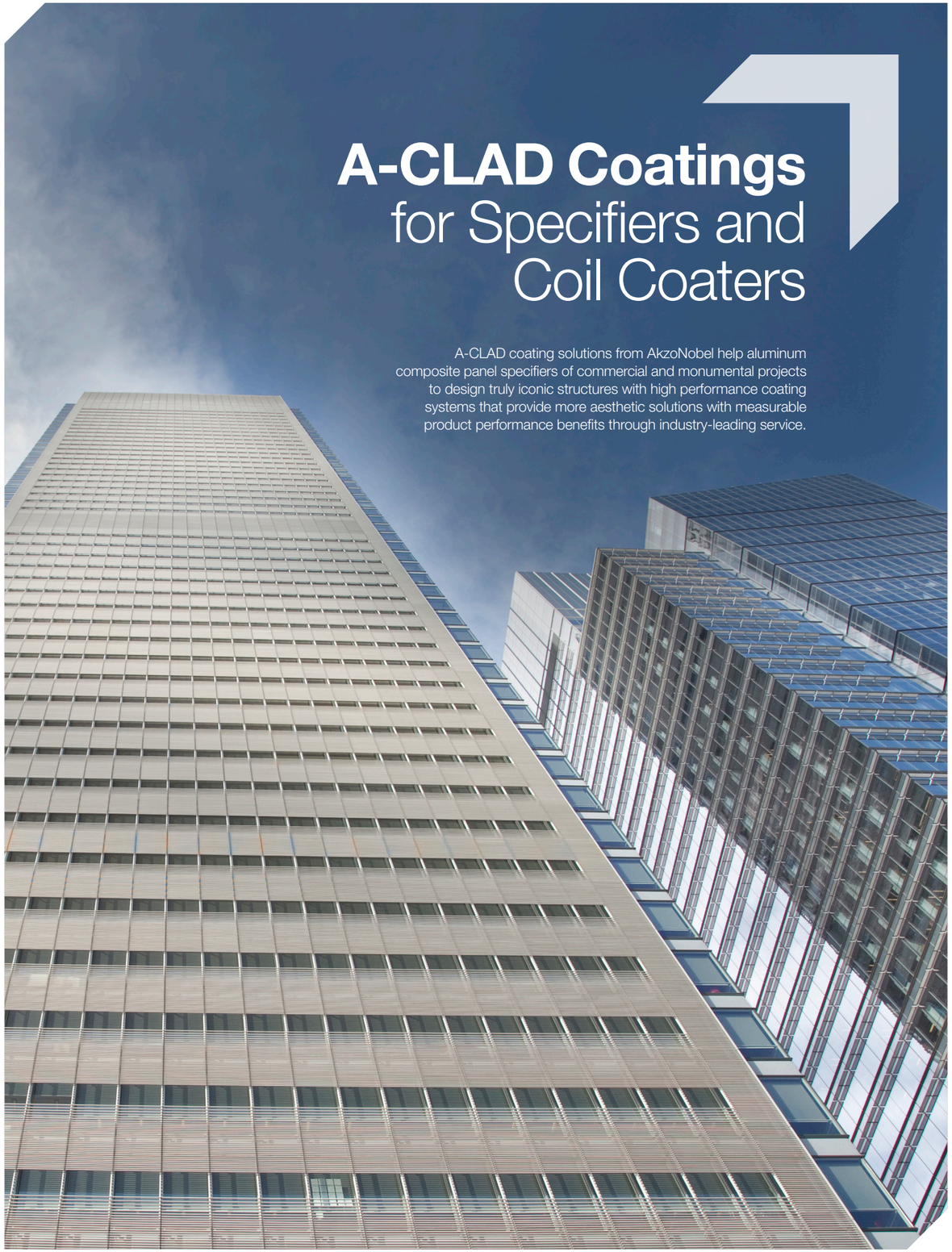
AkzoNobel

High Performance Coil Coating Systems and Services

Aluminum Composite Panel Market



A-CLAD Coatings for Specifiers and Coil Coaters

A-CLAD coating solutions from AkzoNobel help aluminum composite panel specifiers of commercial and monumental projects to design truly iconic structures with high performance coating systems that provide more aesthetic solutions with measurable product performance benefits through industry-leading service.

Leading products for the ACP market

The Aluminum Composite Panel (ACP) market is defined by a type of flat building and construction panel consisting of two aluminum sheets bonded to a non-aluminum core.

The ACP market requires standardization and ease of installation with superior coating quality, appearance and durability from the aluminum composite panels.

Typical applications include high end monumental commercial low rise and monumental aluminum composite projects featuring interior and exterior wall cladding.

TRINAR® A-CLAD

High performance 70% polyvinylidene fluoride (PVDF) coil coating system

TRINAR® A-CLAD was developed by AkzoNobel chemists specifically for the ACP market. It is a high performance 70% polyvinylidene fluoride (PVDF), PFOA-free coil coating system containing proprietary acrylic resin technology with premium ceramic and inorganic pigmentation that comes in a broad range of color and aesthetic options.

TRINAR A-CLAD meets AAMA 2605 specifications for maximum gloss and color retention.

CERAM-A-STAR® A-CLAD

Silicone-modified polyester (SMP) coil coating system

CERAM-A-STAR® A-CLAD is the industry's leading silicone-modified polyester (SMP) coil coating. It features a proprietary resin system resulting in class-leading product performance. In addition, the unique properties of CERAM-A-STAR A-CLAD allow for increased gloss ranges, textures, and print options for varied appearances in ACP applications.

CERAM-A-STAR A-CLAD meets AAMA 2604 certification and rounds out the AkzoNobel product portfolio of coil coatings for the ACP market.

	TRINAR® A-CLAD	CERAM-A-STAR® A-CLAD
High performance 70% PVDF	✓	
Silicone-modified polyester (SMP)		✓
Certification	AAMA 2605	AAMA 2604
High level of colors, mica & metallics	✓	✓
Smooth print options	✓	✓
Full gloss range and textured print options		✓
Quick, accurate color matches	✓	✓
Consistent application performance	✓	✓
Ease of use	✓	✓
Improved scratch and abrasion resistance	✓	✓
Smooth, uniform finish	✓	✓
Stain resistance	✓	✓
PFOA-Free	✓	✓
Standard Warranty	✓	✓

Premium product performance

Quick turn color-matching with more appearance options and prompt product delivery for improved efficiency through easy application.

Benefits to Specifiers:

- Premium appearance coupled with varied color and texture options
- Improved product performance
- Durable coating that stays looking newer for longer
- Increased adhesion
- Better stain resistance
- Improved scratch and abrasion resistance to withstand fabrication and installation
- PFOA-free (TRINAR A-CLAD) and sustainably produced for peace of mind
- Warranty coverage tested to last

Benefits to Coil Coaters:

- Increases production throughput with improved consistency and coating performance
- Improved flow & leveling in the cured topcoat film for ease of production (TRINAR A-CLAD)
- Increased application window for improved productivity
- Consistent and robust product that performs at high coater application line speeds
- PFOA-free (TRINAR A-CLAD) and sustainably produced for peace of mind

Summary

A-CLAD is the latest, most innovative coating technology for aluminum composite panels, allowing manufacturers, architects and designers to bring the latest appearance options to building design.

Coat your entire building with consistency

A-CLAD coating solutions pair perfectly with extrusion TRINAR used to coat extruded aluminum framing (unitized curtain wall) resulting in a consistent coating solution for the entire building envelope.

Color matching confidence

The color you spec is the color you get. **Every time.**

- Quick and accurate color matching and tracking
- Wide range of mica/metallic, gloss and texture finishes
- Easy color selection through digital tools (Canopy & website)
- Color Assurance Program to optimize your business

AkzoNobel's **color matching experts are here to help you** with every color for your project.

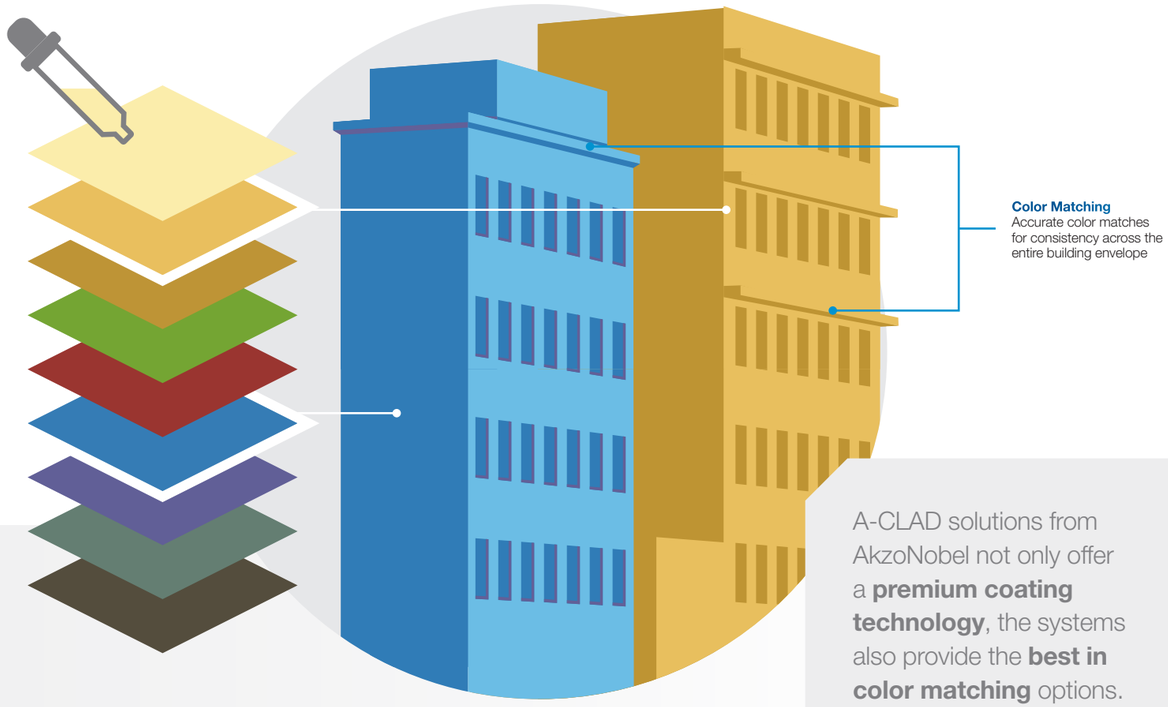
Improve your business processes and increase customer satisfaction with targeted color matching from the AkzoNobel Color Assurance Program.

Color Assurance Program

Advantages of A-CLAD don't just stop with aluminum composite panels. Our Color Assurance Program includes a proprietary set of defined procedures that our experts follow to match curtain wall extrusions with ACP material.

Our Color Assurance Program helps your business and your customers **establish targets** including:

- Bringing coil and extrusion matches together for consistency among the entire building envelope
- Applying specific color targets regardless of application (ie: horizontal, vertical, etc.)
- Helping you stand apart with a diverse set of service offerings
- Increasing customer satisfaction with targeted color matching, product codes and faster turnaround times



A-CLAD solutions from AkzoNobel not only offer a **premium coating technology**, the systems also provide the **best in color matching** options.

How we're continuing to improve our **product performance**

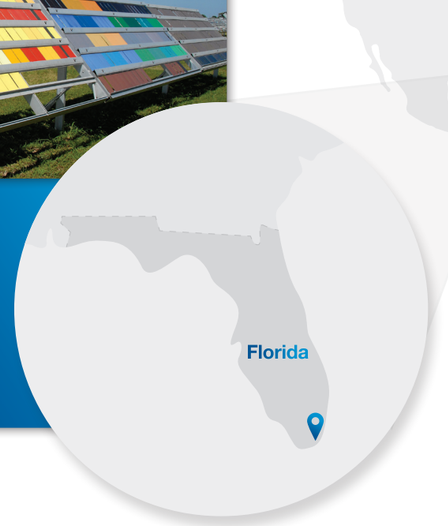
AkzoNobel scientists and field service professionals utilize several tools to measure and improve product performance.

Real world exposure testing

AkzoNobel utilizes an independent certified exposure farm in South FL., in addition to a global network of testing sites as part of AkzoNobel.

South Florida

Because of the extremely high level of UV, moisture, and heat year round, South Florida provides the perfect exposure region for accelerated real world testing.



A-CLAD stands strong in laboratory and real world testing.

Simulated Laboratory Testing

A-CLAD solutions were developed to excel. Expert chemists developed optimized formulations that perform beyond the competition in the lab and are proven in the field.

AkzoNobel chemists **utilize a diverse mix of methods** with key tests for A-CLAD products such as

- Scratch and abrasion resistance (i.e. BYK Durotester and Taber® Micro Scratch)
- Stain resistance
- Weathering (real world and accelerated)
- Humidity resistance

Advanced testing and optimization of our coatings improves surface properties and “slickness” to reduce dirt pick up so it won’t stick to the surface. A-CLAD coatings provide a harder, more resilient surface that resists scratches and other abrasions, lowering labor and repair costs.

Summary: A-CLAD coatings help a building keep looking **newer** and **cleaner** for longer.

Primer critical to **system performance**

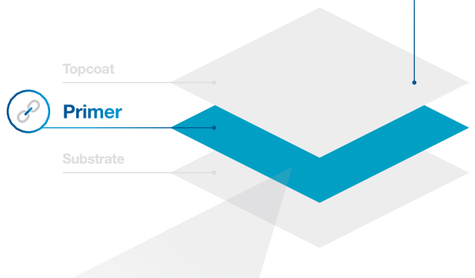
Coil coatings exhibit the best performance when a “system” approach is utilized. Including the primer as part of the coating system allows the topcoat to perform at an optimal level.

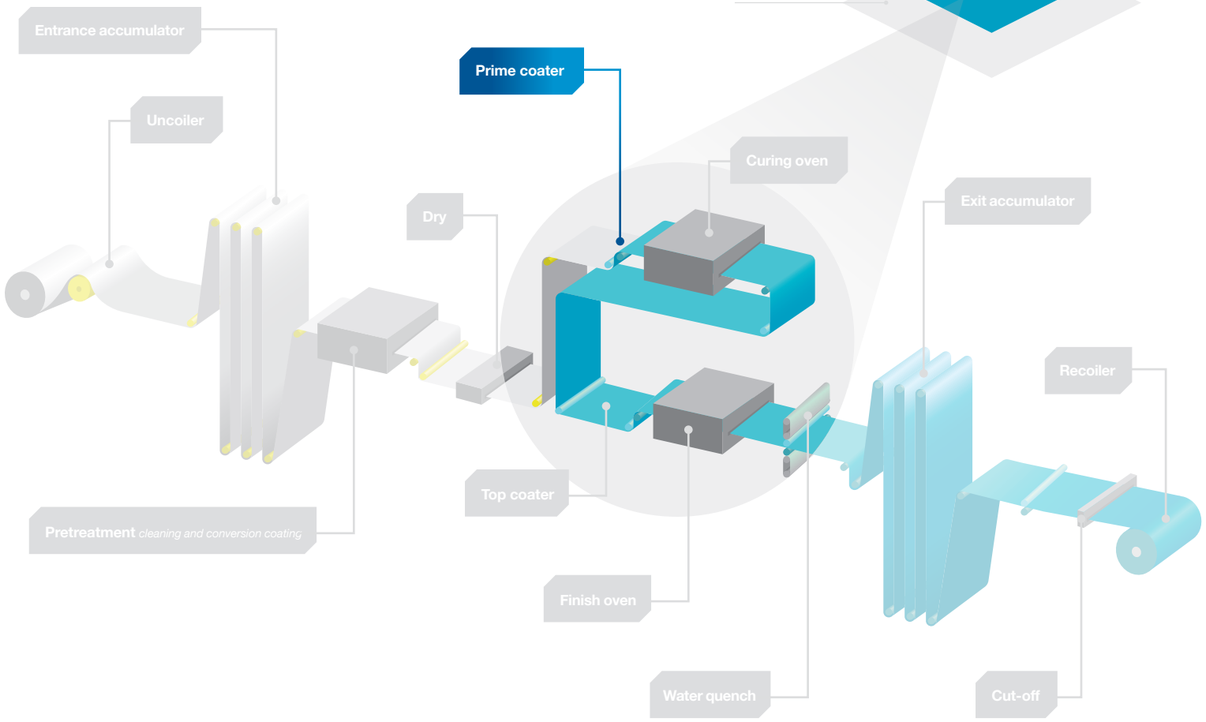
AkzoNobel primers are polyester hybrids, known for their improved UV resistance over competitive epoxy and polyester primers. Primer chemistry coupled with a robust topcoat improves UV stability and intercoat adhesion.

COILTEC® CF65 is chrome-free for additional sustainability benefits.

How our primer process is critical to system performance

The addition of the primer stage during the coating process allows layers to successfully bind together, resulting in a product with increased strength and longevity.





Sustainability of our coatings

AkzoNobel chemists are proud to offer coating systems that are optimized for carbon footprint and help reduce production inputs. AkzoNobel coatings meet established legislation requirements. In addition, COILTEC CF65 is chrome-free, and TRINAR A-CLAD is PFOA-free.

Options for **every appearance**

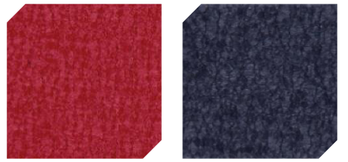
A-CLAD solutions deliver a full portfolio of appearance options.

Tap into a **portfolio of extensive options**

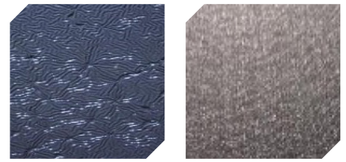
Building trends and demanding customers require a variety of colors, textures, gloss levels and other appearance options. A-CLAD solutions provide a wide range of coating options. Contact your AkzoNobel representative to discuss more color, texture, and paint options.

Examples:

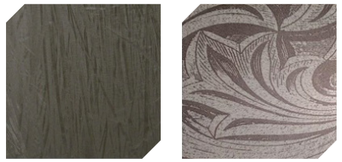
Standard / Wrinkle



Texture / Wrinkle



Adding depth and dimension to prints



The science of saving energy.

A-CLAD products are also available in our COOL CHEMISTRY® Series, which contain ceramic and inorganic infrared reflective pigments. These special pigments are designed to reflect infrared energy while still absorbing visible light energy, thus appearing as the same color yet staying much cooler. When COOL CHEMISTRY® coatings are used, the result is a sustainable building material that can lower air conditioning costs, reduce peak energy demand, and help mitigate urban head island effects.

COOL CHEMISTRY® formulations exhibit solar reflectance and thermal emittance properties in accordance with the most up-to-date building code requirements. They contribute to other green building programs to make projects more sustainable.

Canopy App

View AkzoNobel's full portfolio of innovative finish options, color matching and simulated weathering data. Download technical resources and more. Scan the QR code or visit the Apple App store.

AkzoNobel

coilcoatings.akzonobel.com/us

AkzoNobel has a passion for paint. We're experts in the proud craft of making paints and coatings, setting the standard in color and protection since 1792. Our world class portfolio of brands – including Dulux, International, Sikkens and Interpon – is trusted by customers around the globe. Headquartered in the Netherlands, we are active in over 150 countries and employ around 34,000 talented people who are passionate about delivering the high-performance products and services our customers expect.

For more information
please visit www.akzonobel.com.

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