

Qualities of

# TRINAR® A-CLAD

**A high performance 70% PVDF coil coating system for commercial and monumental aluminum composite panel projects**

## Product information and specifications for TRINAR A-CLAD high performance coil coating systems for the aluminum composite panel (ACP) market

Our history with this incredible PVDF technology dates back to the early 1970's.

With a variety of unique finishes, TRINAR A-CLAD provides an extensive portfolio of options for every appearance.

This data demonstrates TRINAR A-CLAD's remarkable resistance to exterior weathering such as fading, color change, chalking and cracking.

### Product Information

TRINAR A-CLAD is a high performance 70% polyvinylidene fluoride (PVDF) coil coating system designed for the ACP market. It offers a smooth, uniform finish during application and comes in a broad range of color and aesthetic options. It has improved scratch, stain and abrasion resistance, as well as consistent flow and levelling performance. This product meets AAMA 2605 specifications for maximum gloss and color retention.

TRINAR A-CLAD is a leading coating product platform designed for commercial and monumental ACP projects. It provides consistent application results to efficiently match aesthetic solutions and offers innovative surface options for aluminum composite panels. TRINAR A-CLAD also pairs perfectly with extrusion TRINAR used to coat extruded aluminum framing (unitized curtain wall), offering a complete coating solution for the entire building envelope.

TRINAR A-CLAD is ahead of the regulatory curve and is the most innovative coil coating technology for the ACP market. Expert chemists developed optimized PFOA-free (perfluorooctanoic acid) formulations that perform and are proven in the field. TRINAR A-CLAD is based on proprietary formulations containing ceramic and inorganic pigments.

### System Performance

Coil coatings exhibit the best performance when a "system" approach is taken. Including the primer as part of the coating system allows the topcoat to perform at an optimal level by improving UV resistance and intercoat adhesion.

### COOL CHEMISTRY® Series

TRINAR A-CLAD is also available in our COOL CHEMISTRY Series, which contains ceramic 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 on aluminum cladding, the result is a sustainable building material that can lower air conditioning costs, reduce peak energy demand, and help to mitigate urban heat island effects.

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

# Options for every appearance

<b>TRINAR A-CLAD</b>	Standard smooth finish
<b>TRINAR A-CLAD Pearl</b>	Pearl / mica containing finish
<b>TRINAR A-CLAD Matte</b>	Low gloss / low sheen finish
<b>TRINAR A-CLAD Brite</b>	Finishes containing exotic pigmentation requiring protective clear coat
<b>TRINAR A-CLAD Brilliance</b>	High luster, diamond-like sparkle for saturated colors
<b>TRINAR A-CLAD PC</b>	Metallic finish with protective clear coat
<b>TRINAR A-CLAD Mirage</b>	Color changing interference pearl finish
<b>TRINAR A-CLAD AG</b>	Anti-graffiti finish
<b>TRINAR A-CLAD with Printcoat</b>	Standard smooth print finish

## TRINAR A-CLAD product specifications

<b>Product Type</b>	70% polyvinylidene fluoride (PVDF) coating
<b>Specification</b>	Meets or exceeds all AAMA 2605 specifications
<b>Primer</b>	UY9R60000 COILTEC® 60K or UW9R60065 COILTEC 65CF
<b>Film Thickness</b>	Primer: 0.20 - 0.30 mils Topcoat: 0.70 - 0.80 mils Total system: 0.90 - 1.10 mils
<b>T-Bend Adhesion</b>	Passes 2T, NTO

# AAMA 2605 specification

Test	Description	Coating Requirements	TRINAR A-CLAD Performance
7.1	<b>Color Uniformity</b>	Visual control	Instrument and visually controlled
7.2	<b>Specular gloss at 60°, ASTM D 523</b>	Medium and low gloss ranges	Controlled to custom spec ±5 units
7.3	<b>Dry film hardness, ASTM D 3363</b>	F minimum	H+
7.4	<b>Film adhesion (dry, wet and boiling water), crosshatch 1/16 inch squares</b>	No removal between scribed lines	No removal
7.5	<b>Impact resistance (direct) 0.10 inch distortion</b>	No removal of film	No removal
7.7.1	<b>Chemical resistance (10% muriatric acid)</b>	15 minutes, no visual changes	Meets or exceeds spec
7.7.2	<b>Chemical resistance (mortar, alkali)</b>	24 hours, no visual changes	Meets or exceeds spec
7.7.3	<b>Resistance to acid pollutants (70% nitric acid)</b>	30 minutes, maximum 5ΔE NBS units color change	Meets or exceeds spec
7.7.4	<b>Detergent resistance</b>	72 hours, no effect	Meets or exceeds spec
7.8.1	<b>Humidity resistance, ASTM B 2247</b>	4,000 hours, few #8 blisters (maximum)	Meets or exceeds spec
7.8.2	<b>Cyclic corrosion testing, ASTM G85, Annex A5</b>	2,000 hours, minimum 7 on scribe or cut edges and minimum blister rating of 8 (ASTM D 1654)	Meets or exceeds spec
7.9.1.2	<b>Weathering, color retention, ASTM D 2244</b>	10 years, 45° S. South Florida, max 5ΔE NBS units color change	Meets or exceeds spec
7.9.1.3	<b>Weathering, chalk resistance, ASTM D 4214</b>	10 years, 45° S. South Florida, max 8 rating for colors, 6 rating for whites	Meets or exceeds spec
7.9.1.4	<b>Gloss retention</b>	10 years, 50% minimum	Meets or exceeds spec
7.9.1.5	<b>Weathering, erosion resistance</b>	10 years, 45° S. South Florida, maximum 20% loss	Meets or exceeds spec

For more information, please contact:

**Akzo Nobel Coatings Inc.**  
1313 Windsor Ave.  
Columbus, OH 43211

614.294.3361

**Scan here to download the  
Canopy app:**



# AkzoNobel

<https://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.

© 2020 Akzo Nobel NV. All rights reserved.

TRINAR and COOL CHEMISTRY are registered trademarks of an Akzo Nobel company  
Revision Date: May 2020