

Qualities of

# CERAM-A-STAR® A-CLAD

**A high performance silicone-modified polyester (SMP) coil coating system for commercial and monumental aluminum composite panel projects**

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

CERAM-A-STAR is the industry's leading silicone modified polyester coil coating with 20+ years of proven performance.

Expand your creative options with gloss ranges, textured finishes, and print options to provide an aesthetically pleasing appearance.

Years of testing in South Florida has shown that CERAM-A-STAR A-CLAD has excellent resistance to weathering, chalking, fading and cracking.

### Product Information

CERAM-A-STAR A-CLAD is the industry's leading silicone modified polyester (SMP) coil coating system designed for the ACP market. It features a proprietary resin system, which allows for increased gloss ranges, textured finishes and print options for varied appearances. This product meets AAMA 2604 specifications for durable gloss and color retention.

CERAM-A-STAR A-CLAD is a leading coating product platform designed for commercial and monumental ACP projects. It provides consistent application results to match aesthetic solutions efficiently and offers innovative surface options for aluminum composite panels. Full gloss, texture and print (CERAM-A-STAR A-CLAD Expressions) options are available. These unique finishes allow for endless creativity to design a truly differentiated look.

CERAM-A-STAR A-CLAD Expressions is a revolutionary print system used to create innovative appearances or convincing imitations of natural materials, such as wood, slate or granite. Expressions is a tough and durable exterior finish with proprietary resins and special additives. Applied over an ink print layer and one of our high performance primers, CERAM-A-STAR A-CLAD Expressions adds depth, dimension and style to any finish.

CERAM-A-STAR A-CLAD Ice is an attractive wrinkled surface that captures and reflects light in diverse ways to present a soft appearance, imparting distinction and sophistication to metal surfaces. With proprietary resins and special additives, CERAM-A-STAR A-CLAD Ice creates a textured coating surface that is durable and easy to apply, fabricate and install. It is designed to endure the extreme North American climates and provides years of color and protection.

CERAM-A-STAR A-CLAD also pairs well with AkzoNobel's spray extrusion technology for aluminum framing (unitized curtain wall), offering a complete coating solution for the entire building envelope.

### System Performance

CERAM-A-STAR A-CLAD is based on proprietary resins combined with ceramic and inorganic pigments. This proven technology exhibits 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.

# Options for every appearance

<b>CERAM-A-STAR A-CLAD</b>	Standard smooth finish
<b>CERAM-A-STAR A-CLAD Ice</b>	Wrinkle finish
<b>CERAM-A-STAR A-CLAD Ice HD</b>	High definition wrinkle finish
<b>CERAM-A-STAR A-CLAD Matte</b>	Low gloss / low sheen finish
<b>CERAM-A-STAR A-CLAD Expressions</b>	Wrinkle print finish

## COOL CHEMISTRY® Series

CERAM-A-STAR 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 CERAM-A-STAR 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.

# CERAM-A-STAR A-CLAD product specifications

<b>Product Type</b>	Silicone-modified polyester (SMP) coating
<b>Specification</b>	Meets or exceeds all AAMA 2604 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 2604 specifications

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
7.6	<b>Abrasion resistance ASTM D 968</b>	Abrasion coefficient value, 20 minimum	Exceeds spec
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>	3,000 hours, few #8 blisters (maximum)	Meets or exceeds spec
7.8.2	<b>Salt spray resistance, ASTM B 117</b>	3,000 hours, minimum 7 on scribe or cut edges and minimum blister rating of 8 in field	Meets or exceeds spec
7.9.1.2	<b>Weathering, color retention, ASTM D 2244</b>	5 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>	5 years, 45° S. South Florida, max 8 rating for colors, 6 rating for whites	Meets or exceeds spec
7.9.1.5	<b>Weathering, erosion resistance</b>	5 years, 45° S. South Florida, maximum 20% loss	Meets or exceeds spec

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