

The qualities of

# CERAM-A-STAR® Matte

A rich look with modern appeal



## Product information and specifications for CERAM-A-STAR Matte high-performance silicone-modified polyester finishes

### Product Information

CERAM-A-STAR Matte is an offering of coil coatings with low gloss and low sheen characteristics specially formulated to reduce glare while presenting a rich soft appearance. The wide range of colors will enhance any design and provide a modern look.

CERAM-A-STAR Matte is a silicone-modified polyester (SMP) coating system designed exclusively for the metal construction industry. It is based on the industry's leading SMP coil coating system, CERAM-A-STAR Matte, and offers superior color stability and chalk and fade resistance. A proprietary resin formulation provides the backbone for this revolutionary SMP system. When combined with ceramic and inorganic pigments, it creates the most durable SMP finish available.

This two-coat system, which utilizes our High-Performance Primer, provides exceptional durability and offers superior resistance to moisture and UV exposure, with excellent flexibility and abrasion resistance. The unique and highly durable topcoat provides the best color stability of any SMP product.

CERAM-A-STAR Matte represents a level of performance surpassing that of all previous silicone-modified polyester finishes. It closes the

performance gap with PVDF as it approaches the long-term results of the higher priced coating — while combining the best technological balance of flexibility and toughness.

### Field Performance

CERAM-A-STAR Matte is one component of a total paint system. When applied in accordance to specifications the following field performance can be expected.

	Walls	Roofs
<b>Film Integrity</b>	40 years	40 years
<b>Chalk</b>	No more than #8 for 30 years	No more than #6 for 30 years
<b>Fade</b>	No more than 5 ΔE Hunter units for 30 years	No more than 7 ΔE Hunter units for 30 years

### General System Information

CERAM-A-STAR Matte is approved for use on the following substrates: Hot-Dipped Galvanized (HDG), Galvalume®, Galfan® and Aluminum.

CERAM-A-STAR Matte is a factory-applied finish that is applied through roll coating to properly cleaned and pre-treated first-quality substrates, and then oven-baked to cure. It is a two-coat system, composed of a topcoat over AkzoNobel's High-Performance Primer.

### CERAM-A-STAR® Matte COOL CHEMISTRY® Series

CERAM-A-STAR Matte 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 metal roofing, 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. All of our high-performance coatings for building products are also available in COOL CHEMISTRY versions.

1.800.294.3361

Physical Address:  
1313 Windsor Ave.  
Columbus, OH 43211

## Application Characteristics

<b>Film Thickness</b>	Topside finish: Primer (dry) = 0.20 – 0.30 mils; Topcoat (dry) = 0.70 – 0.80 mils; Reverse side finish: Primer (dry) = 0.15 – 0.25 mils; Pigmented backer (dry) = 0.30 – 0.40 mils. Total DFT for system = 0.90 – 1.15 mils. All measurements per ASTM D 5796.
<b>Topside Color</b>	Controlled to the Master Standard by an approved Color Difference Meter or Spectrophotometer, and by visual match under daylight and horizon light of a Macbeth Daylight Booth per ASTM D 1729.

## Physical Properties

<b>Specular Gloss</b>	Determined per ASTM D 523 at a glossmeter angle of 60°. CERAM-A-STAR Matte systems are typically 8 - 12%.
<b>Specular Sheen</b>	Determined per ASTM D 523 at a glossmeter angle of 85°. CERAM-A-STAR Matte systems are typically 15 - 20%.
<b>Pencil Hardness</b>	Minimum pencil hardness, per ASTM D 3363, is "F".
<b>Solvent Resistance</b>	Passes minimum of 100 double rubs of a MEK soaked cloth, per ASTM D 5402.
<b>Cross-Hatch Adhesion</b>	No paint removal with Scotch #610 cellophane tape after cross-scoring with eleven horizontal and eleven vertical lines 1 mm apart, per ASTM D 3359.
<b>Impact Resistance</b>	No visible paint removal with Scotch #610 cellophane tape after direct and reverse impact of 80-inch pounds, using 5/8" steel ball on a Gardner Impact Tester, per ASTM D 2794.
<b>T-Bend Adhesion</b>	Per ASTM D 4145, no loss of adhesion when taped with Scotch #610 cellophane tape when subjected to a 2T-Bend.

## Testing Data

<b>Humidity Resistance</b>	No blistering, cracking, peeling, loss of gloss or softening of the finish after 1000 hours of exposure to 100% humidity at 100°F ± 5°F, per ASTM D 2247.
<b>Cleveland Condensing</b>	No blistering, rusting or loss of adhesion of the finish after 1000 hours of exposure at 120°F, per ASTM D 4585.
<b>Water Immersion Resistance</b>	Samples immersed in distilled water at 100°F per ASTM D 870 will exhibit no loss of gloss, blistering, cracking, color change or softening of finish after 500 hours.
<b>Salt Spray Resistance</b>	Samples diagonally scored and subjected to 5% neutral salt spray for 1000 hours, per ASTM B 117, then taped 1 hour after removal from the test cabinet with Scotch #610 cellophane tape, exhibit no blistering, no loss of adhesion and scribe creep no greater than 1/8".
<b>Chemical Resistance</b>	No significant color change after 24 hours exposure to 10% solutions of hydrochloric and sulfuric acids, per ASTM D 1308, Procedure 7.2 (spot test).
<b>Kesternich Test</b>	No significant color change after 10 cycles in a SO <sub>2</sub> chamber, per ASTM G 87.
<b>Accelerated Weathering</b>	5 Hunter ΔE maximum color change, and at least #8 chalk rating after 2000 hours exposure, per ASTM G 151 and G 154 using UVA-340 bulbs.
<b>Exterior Weathering</b>	Florida exposure (45° South), 5 Hunter ΔE maximum color change, per ASTM D 2244, and at least #8 chalk rating, per ASTM D 4214, Method A, after 10 years real-time exposure.
<b>Abrasion Resistance</b>	Per ASTM D 968, Method A, CERAM-A-STAR Matte passes 35 +/- 5 liters/mil of falling sand.
<b>Flame Spread Rating</b>	CERAM-A-STAR Matte displays a flame spread classification of A (Class 1) when tested in accordance with ASTM E 84.



[coilcoatings.akzonobel.com/us](http://coilcoatings.akzonobel.com/us)

We've been pioneering a world of possibilities to bring surfaces to life for well over 200 years. As experts in making coatings, there's a good chance you're only ever a few meters away from one of our products. Our world class portfolio of brands - including Dulux, International, Sikkens and Interpon - is trusted by customers around the globe. We're active in more than 150 countries and have set our sights on becoming the global industry leader. It's what you'd expect from the most sustainable paints company, which has been inventing the future for more than two centuries.

For more information please visit [www.akzonobel.com](http://www.akzonobel.com)

© 2021 Akzo Nobel N.V. All rights reserved.

CERAM-A-STAR and COOL CHEMISTRY are registered trademarks of an Akzo Nobel company  
Galvalume is an internationally recognized trademark of BIEC International Inc.  
Galfan is a registered trademark of Galfan Technology Centre, Inc.

Revision Date: February 2021