

The qualities of

CERAM-A-STAR® 950

A high performance silicone-modified polyester coil coating system



AkzoNobel
Tomorrow's Answers Today

Product Information and Performance Specifications for CERAM-A-STAR® 950 Silicone Polyester Finishes

Product Information

AkzoNobel's CERAM-A-STAR® 950 represents a level of performance surpassing that of all previous silicone-protected finishes. CERAM-A-STAR® 950 colors are created from field proven combinations of proprietary resin technology and long lasting ceramic and select inorganic pigmentation. The result is a long-lasting finish that resists degradation from ultraviolet radiation in sunlight.

To assure the very best results from our highly-durable CERAM-A-STAR® 950 resin system, it is imperative to use the same high performance ceramic and select inorganic pigments that are found in more expensive PVDF finishes. This combination gives unbeatable performance when compared to previous technology systems.

The two-coat system, using our High-Performance primer, provides exceptional durability and offers superior resistance to moisture and UV exposure. CERAM-A-STAR® 950 also offers excellent resistance to dirt pickup and atmospheric stain. Its scratch and abrasion resistance are big bonuses during transit, handling and installation as well – particularly in hot weather.

Insisting on the field proven performance of CERAM-A-STAR® 950 today will pay off later in a building that will look better for a longer period of time.

Field Performance

CERAM-A-STAR® 950 is one component of a total paint system, when applied in accordance to specifications the following field performance can be expected.

	Walls	Roofs
Film	30 years	30 years
Integrity		
Chalk	No more than #8 for 25 years	No more than #6 for 25 years
Fade	No more than 5 Hunter units for 25 years	No more than 7 Hunter units for 25 years

General System Information

CERAM-A-STAR® 950 is approved for use on the following substrates: Hot-Dipped Galvanized (HDG), Galvalume®, Galfan and Aluminum.

CERAM-A-STAR® 950 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® 950 COOL CHEMISTRY® Series

CERAM-A-STAR® 950 is also available in our COOL CHEMISTRY® series which contain 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® Series paints 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. COOL CHEMISTRY® Series versions are available of our high performance coatings for building products.

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Application Characteristics

Film Thickness	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.
Topside Color	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

Specular Gloss	Determined per ASTM D 523 at a glossmeter angle of 60°. CERAM-A-STAR® 950 systems are typically 35% ± 5%, but are available in both higher and lower gloss ranges.
Pencil Hardness	Minimum pencil hardness, per ASTM D 3363, is "F".
Solvent Resistance	Passes minimum of 100 double rubs of a MEK soaked cloth, per ASTM D 5402.
Cross-Hatch Adhesion	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.
Impact Resistance	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.
T-Bend Adhesion	Per ASTM D 4145, no loss of adhesion when taped with Scotch #610 cellophane tape when subjected to a 2T-Bend.

Testing Data

Humidity Resistance	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.
Cleveland Condensing	No blistering, rusting or loss of adhesion of the finish after 1000 hours of exposure at 120°F, per ASTM D 4585.
Water Immersion Resistance	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.
Salt Spray Resistance	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".
Chemical Resistance	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).
Kesternich Test	No significant color change after 10 cycles in a SO ₂ chamber, per ASTM G 87.
Accelerated Weathering	5 Hunter ΔE maximum color change, and at least #8 chalk rating after 1,500 hours exposure, per ASTM G 151 and G 154 using UVA-340 bulbs.
Exterior Weathering	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 5 years real-time exposure.
Abrasion Resistance	Per ASTM D 968, Method A, CERAM-A-STAR® 950 passes 30 +/- 5 liters/mil of falling sand.
Flame Spread Rating	CERAM-A-STAR® 950 displays a flame spread classification of A (Class 1) when tested in accordance with ASTM E 84.



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AkzoNobel is the largest global paints and coatings company and a major producer of specialty chemicals. We supply industries and consumers worldwide with innovative products and are passionate about developing sustainable answers for our customers. Headquartered in Amsterdam, the Netherlands, we are a Global Fortune 500 company and are consistently ranked as one of the leaders in the area of sustainability. With operations in more than 80 countries, our 55,000 people around the world are committed to excellence and delivering Tomorrow's Answers Today™.

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