

The qualities of

CERAM-A-STAR® Frost

Soft look, tough as nails!



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

Product Information

CERAM-A-STAR Frost is a tough and durable two-coat exterior finish based on the superior performance of CERAM-A-STAR 1050, the recognized industry leader of silicone-modified polyester (SMP) paint systems in North America.

This unique chemistry, using AkzoNobel proprietary resins and special additives, creates a textured coating surface that is not only durable, but easy to apply, fabricate and install. CERAM-A-STAR Frost was formulated in North America and is designed to endure the extreme North American climates. Mother Nature has met her match!

CERAM-A-STAR Frost, utilizing Cool Chemistry® pigmentation, can help reduce energy consumption by lowering cooling loads. All colors meet North America's Cool Roofing requirements.

AkzoNobel offers this soft-look finish in the most popular and appealing colors.

This two-coat system, using 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 and gloss retention of any SMP special effect finish.

Field Performance

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

	Walls	Roofs
Film Integrity	40 years	40 years
Chalk	No more than #8 for 30 years	No more than #6 for 30 years
Fade	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 Frost is approved for use on the following substrates: Hot-Dipped Galvanized (HDG), Galvalume® and Aluminum. CERAM-A-STAR Frost 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 Frost COOL CHEMISTRY Series

CERAM-A-STAR Frost is only 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.

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Application Characteristics

Film Thickness	Topside finish: Primer (dry) = 0.20 – 0.30 mils; Topcoat (dry) = 1.0 – 1.1 mils; Reverse side finish: Primer (dry) = 0.15 – 0.25 mils; Pigmented backer (dry) = 0.30 – 0.40 mils. Total DFT for system = 1.20 – 1.40 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 Frost systems are typically 2 – 4%.
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 E maximum color change, and at least #8 chalk rating after 2000 hours exposure, per ASTM G 151 and G 154 using UVA-340 bulbs.
Flame Spread Rating	CERAM-A-STAR Frost displays a flame spread classification of A (Class 1) when tested in accordance with ASTM E 84.



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AkzoNobel is a leading 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. Our portfolio includes wellknown brands such as Dulux, Sikkens, International and Eka. Headquartered in Amsterdam, the Netherlands, we are consistently ranked as one of the leaders in the area of sustainability. With operations in more than 80 countries, our 50,000 people around the world are committed to delivering leading products and technologies to meet the growing demands of our fastchanging world.

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