

# The qualities of TRINAR<sup>®</sup> AG

AkzoNobel



Your built-in defense against graffiti-based property damage in a versatile, high-performance fluoropolymer coil coating system

Product information and performance specifications for TRINAR AG high-performance fluoropolymer finishes

#### Product Information

TRINAR AG is an anti-graffiti high-performance fluoropolymer coating system. This unique resin is combined with other proprietary resins and with the highest quality ceramic and select inorganic pigments for the finest metal finish available. The system is designed to repel graffiti upon application and to provide cleanability for easy graffiti release.

This three-coat system provides unique protection against most graffiti in a tough but flexible finish, and is perfectly suited for institutional, industrial, and commercial wall applications. TRINAR AG meets or exceeds all requirements of AAMA 2605.

Test samples of TRINAR AG have been exposed at weathering facilities in South Florida and around the world, proving the excellent graffiti release properties of this system. We are continuously evaluating these test panels to ensure that only the highest quality pigmentation is used. The result is a coating system formulated for and tested under real world conditions. Using TRINAR AG coatings for your wall or vertical building component application will provide a built-in deterrent for graffiti taggers assuring your project will continue to look good for many years.

AkzoNobel stands behind the performance of TRINAR AG and backs it up with years of research and experience. TRINAR AG coatings provide protection for all types of buildings in locations around the globe. They have proven that they are more than capable of withstanding the harsh ultraviolet rays of the sun and the degrading effects of weather extremes.

#### Field Performance

TRINAR AG is one component of a total paint system. When applied in accordance to specifications, the following field performance can be expected.

#### Walls / Vertical Building Components / Exterior / Interior

Film	Integrity 35 years
Chalk	No more than #8 for 35 years
Fade	No more than 5 Delta E (Hunter units) for 35 years

#### General System Information

TRINAR AG is approved for use on the following substrates: Hot-Dipped Galvanized (HDG), Galvalume and Aluminum. TRINAR AG is a factory-applied finish that is applied through roll coating to properly cleaned and pretreated first-quality substrates, and then oven-baked to cure. It is a three-coat system, composed of a clear-coat fluoropolymer applied over our 70% PVDF basecoat which is applied over our High-Performance Primer.

## Application

<b>Film Thickness</b>	Topside finish: Primer (dry) = 0.20 – 0.30 mils; Basecoat (dry) = 0.70 – 0.80 mils; Clear-coat (dry) = 0.4 - 0.6 mils. Reverse side finish: Primer (dry) = 0.15 – 0.25 mils; Pigmented backer (dry) = 0.30 – 0.40 mils. Total DFT for system = 1.30 – 1.60 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>	30 - 40. Determined per ASTM D 523 at a gloss meter angle of 60°.
<b>Pencil Hardness</b>	Minimum pencil hardness, per ASTM D 3363, is "HB". Solvent Resistance 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>Salt Spray Resistance</b>	Samples diagonally scored and subjected to 5% neutral salt spray for 1000 hours (HDG, Galvalume) or 2000 hours (Aluminum), 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>Accelerated Weathering</b>	5 Hunter $\Delta E$ maximum color change, and at least #8 chalk rating after 10,000 hours exposure, per ASTM G 151 and G 154 using UVA-340 bulbs.
<b>Abrasion Resistance</b>	Per ASTM D 968, Method A, TRINAR AG passes 65 +/- 5 liters minimum of falling sand.
<b>Flame Spread Rating</b>	TRINAR AG 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 well-known 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 fast-changing world.

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