The qualities of

TRINAR® LG/LS

A versatile high-performance PVDF coil coating system



Product information and performance specifications for TRINAR LG/LS high-performance fluoropolymer finishes

Product Information

TRINAR LG/LS are low gloss and low sheen versions of our versatile TRINAR high-performance fluoropolymer coating, which contain 70% polyvinylidene (PVDF) resin. This unique resin is combined with other proprietary resins and the highest quality ceramic and select inorganic pigments for the finest metal finish available.

These two-coat systems, which utilize our High-Performance Primer, provide unparalleled protection against harsh environmental weathering for decades. They have tough but flexible finishes, and are perfectly suited for high-end residential, institutional and commercial applications. TRINAR LG/LS meets or exceeds all requirements of AAMA 620/621 and AAMA 2605.

Test samples of TRINAR LG/LS have been exposed for decades at weathering facilities in South Florida and around the world, with results that prove the superiority of this system. We are constantly 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 coatings will ensure your project will continue to look good for many years after installation.

AkzoNobel stands behind the performance of TRINAR LG/LS and backs it up with years of research and experience. TRINAR LG/LS coatings are providing protection on 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 LG/LS is one component of a total paint system. When applied in accordance to specifications the following field performance can be expected.

Film Integrity	35 years
Chalk	No more than #8 for 35 years
Fade	No more than 5 ΔE Hunter units for 35 years

General System Information

TRINAR LG/LS is approved for use on the following substrates: Hot-Dipped Galvanized (HDG), Galvalume® and Aluminum.

TRINAR LG/LS is a factory-applied finish that is applied through roll coating to properly cleaned and pretreated first-quality substrates, and then ovenbaked to cure. It is a two-coat system, composed of a topcoat over our High-Performance Primer

TRINAR LG/LS COOL CHEMISTRY® Series

TRINAR LG/LS 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.

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Application Characteristics

opside 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 igmented backer (dry) = 0.30 - 0.40 mils. Total DFT for system = 0.90 - 1.10 mils. All measurements per ASTM D 5796. Sontrolled 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. RINAR LG: 8% - 15%. Determined per ASTM D 523 at a glossmeter angle of 60°.
controlled to the Master Standard by an approved Color Difference Meter or Spectrophotometer, and by visual match under daylight nd horizon light of a Macbeth Daylight Booth per ASTM D 1729.
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RINAR I.G. 8% - 15%. Determined per ASTM D.523 at a glossmeter angle of 60°.
RINAR I G: 8% - 15% Determined per ASTM D 523 at a glossmeter angle of 60°
The fire Lat. 670 1070. Batannina par North B 020 at a global later angle of 60.
RINAR LS: 6% - 14%. Determined per ASTM D 523 at a glossmeter angle of 85°.
finimum pencil hardness, per ASTM D 3363, is "HB".
asses minimum of 100 double rubs of a MEK soaked cloth, per ASTM D 5402.
lo paint removal with Scotch #610 cellophane tape after cross-scoring with eleven horizontal and eleven vertical lines 1 mm aparer as the contract of the cont
lo visible paint removal with Scotch #610 cellophane tape after direct and reverse impact of 80-inch pounds, using 5/8"
teel ball on a Gardner Impact Tester, per ASTM D 2794.
er ASTM D 4145, no loss of adhesion when taped with Scotch #610 cellophane tape when subjected to a 2T-Bend.
lo blistering, cracking, peeling, loss of gloss or softening of the finish after 2000 hours (HDG, Galvalume) or 3000 hours (Aluminum f exposure to 100% humidity at 100° F \pm 5° F, per ASTM D 2247.
lo blistering, rusting or loss of adhesion of the finish after 1500 hours (HDG, Galvalume) or 3000 hours (Aluminum) of exposure a 20°F, per ASTM D 4585.
amples immersed in distilled water at 100°F per ASTM D 870 will exhibit no loss of gloss, blistering, cracking or color change afte 00 hours.
amples diagonally scored and subjected to 5% neutral salt spray for 1000 hours (HDG, Galvalume) or 3000 hours (Aluminum), pe STM B 117, then taped 1 hour after removal from the test cabinet with Scotch #610 cellophane tape, exhibit no blistering, no loss of dhesion and scribe creep no greater than 1/8".
lo significant color change after 24 hours exposure to 10% solutions of hydrochloric and sulfuric acids, per ASTM D 1308, Procedur. 2 (spot test).
lo significant color change after 10 cycles in a SO ₂ chamber, per ASTM G 87.
Hunter ΔE maximum color change, and at least #8 chalk rating after 10,000 hours exposure, per ASTM G 151 and G 154 usin VA-340 bulbs.
lorida exposure (45° South), 5 Hunter ΔE maximum color change, per ASTM D 2244, and at least #8 chalk rating, per ASTM D 4214 lethod A, after 20 years real-time exposure.
er ASTM D 968, Method A, TRINAR passes 65 +/- 5 liters minimum of falling sand.



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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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