

# TRINAR<sup>®</sup>

## 70% PVDF Coatings

The color you spec is the color that stays.

**AkzoNobel** 

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**Great ideas don't fade over time.  
They endure.**

When metal components are part of your vision, specify a coatings system that will last long after your inspiration has become a reality. Color can transform the ordinary into extraordinary, but only if it refuses to fade, chalk and submit to the elements. Utilizing coil-coated metal building components, like roofing and wall cladding, has not only improved aesthetics, but also improved durability and reduced maintenance concerns. TRINAR coatings provide a tough, durable, weather-resistant finish that top design professionals are eager to specify, and respected contractors are proud to install.

**Its performance can be traced to its chemistry.**

The TRINAR coating system is a high-performance fluoropolymer coating containing a minimum of 70% polyvinylidene fluoride (PVDF) resin. This unique resin is combined with other proprietary resins and the highest quality ceramic and inorganic pigments for the finest metal finish available. The result is a tough but flexible finish with exceptional resistance to ultraviolet radiation in sunlight for maximum protection against weathering effects, such as fading and chalking. This long-term beauty and protection is ideal for a wide range of architectural features, such as metal roofing, wall panels, curtain walls, siding, canopies and fascia.



**Custom or standard, every color is designed to last.**

The TRINAR system is available in a wide array of colors and gloss levels to help highlight the beauty of the architectural design and compliment construction materials. Custom color-matched formulations for specific applications are available at your request, since every project is different and unique.

TRINAR's performance is proven over time. Time and time again. Look at an installation that has been out in the elements for ten years or more, and what you'll see are TRINAR coatings retaining their gloss and original brilliant color, beautifully. That's what happens when you combine AkzoNobel's premium pigmentation and proprietary acrylic resin with 70% PVDF resin to create an exceptional coatings system. It is also highly resistant to degradation by ultraviolet radiation and attack by airborne pollutants.

**We never stop innovating.**

Innovative research and development, considerable application experience and an intense commitment to fulfilling customer needs have earned AkzoNobel a reputation for quality and a position of leadership.

Production samples of TRINAR have been exposed for decades at weathering facilities in South Florida and other locations around the world. These samples are constantly being evaluated to ensure the performance of TRINAR meets what is expected by the architectural community. We also use our extensive real-world outdoor exposure program to evaluate pigment choices and to test product enhancements.

**At AkzoNobel, requirements aren't simply met. They're exceeded.**

To ensure your project receives the finest protection available, specify TRINAR, 70% PVDF Fluoropolymer Finish. All TRINAR coatings meet or exceed the stringent requirements of AAMA 620/621 and AAMA 2605, the specifications established for high-performance coatings by the American Architectural Manufacturers Association.

AkzoNobel's TRINAR coatings are listed as Certified Premium Paint systems in the Metal Construction Association's (MCA) Steep Slope Metal Roofing Certification Program. Premium systems represent the highest level of quality in the MCA certification program, and meet the most stringent fade, chalk and gloss requirements.



	Custom Colors	Express Color Match	Lead Free	Express Order	Air Dry Touch Up	Master Standard Color Control	Film Thickness Range ASTM D 5796	Number of Coats
<b>TRINAR</b>	●	●	●	●	●	●	.9 – 1.1	2
<b>TRINAR CC</b>	●	●	●	●	●	●	.9 – 1.1	2
<b>TRINAR LG</b> <b>TRINAR LS</b>	●	●	●	●	●	●	.9 – 1.1	2
<b>TRINAR Pearl</b>	●	●	●	●	●	●	.9 – 1.1	2
<b>TRINAR PC</b>	●	●	●	●	●	●	1.4 – 1.7	3
<b>TRINAR Brite</b>	●	●	●	●	●	●	1.4 – 1.7	3
<b>TRINAR TF2</b>	●	●	●	●	●	●	2.0 – 2.2	2
<b>TRINAR TFC</b>	●	●	●	●	●	●	2.3 – 2.6	3
<b>TRINAR TF4</b>	●	●	●	●	●	●	3.7 – 4.1	4
<b>TRINAR TF5</b>	●	●	●	●	●	●	4.7 – 5.2	5

TRINAR coatings are providing protection for architectural metal on all types of buildings and locations around the globe. TRINAR coatings have proven capable of withstanding the degrading effects of weather extremes from the equator to the arctic.

**The science of saving energy.**

TRINAR is also available in our COOL CHEMISTRY® Series, which contains ceramic and inorganic 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.

COOL CHEMISTRY formulations of TRINAR exhibit solar reflectance and thermal emittance properties that qualify them as cool roofs in many energy codes and rating

systems. They are designed to meet Energy Star® guidelines, in addition to other local, regional and federal code requirements for energy efficient building products. They can also help contribute to points in LEED and other green building programs to help make projects more sustainable.

**When you specify TRINAR, you specify a global leader.**

AkzoNobel is the largest coatings manufacturer in the world and one of North America's leading manufacturers of industrial finishes. 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™.

The Coil and Extrusion Coatings division for North and South America is headquartered in Columbus, Ohio, and manufactures and markets coatings throughout the Americas. We are a market leader in the development and supply of coil coatings, the most effective method in use to ensure the consistent, high-quality protection and decoration of metal substrates.

Specular Gloss ASTM D 523	Hardness ASTM D 3363	Cross-Hatch Adhesion ASTM D 3359	Reverse Impact ASTM D 2794	T-Bend ASTM D 4145	Humidity Resistance ASTM D 2247	Cleveland Condensing ASTM D 4585
25-35 @ 60°	HB Minimum	No Loss of Adhesion	No Loss of Adhesion	2T, No Loss of Adhesion	No blistering, 1,500 hrs (HDG or Galvalume) 3,000 hrs (Aluminum)	No blistering, 1,500 hrs (HDG or Galvalume) 3,000 hours (Aluminum)
25-35 @ 60°	HB Minimum	No Loss of Adhesion	No Loss of Adhesion	2T, No Loss of Adhesion	No blistering, 1,500 hrs (HDG or Galvalume) 3,000 hrs (Aluminum)	No blistering, 1,500 hrs (HDG or Galvalume) 3,000 hours (Aluminum)
8-15, at 60° (LG) 6-14, at 85° (LS)	HB Minimum	No Loss of Adhesion	No Loss of Adhesion	2T, No Loss of Adhesion	No blistering, 1,500 hrs (HDG or Galvalume) 3,000 hrs (Aluminum)	No blistering, 1,500 hrs (HDG or Galvalume) 3,000 hrs (Aluminum)
25-35 @ 60°	HB Minimum	No Loss of Adhesion	No Loss of Adhesion	2T, No Loss of Adhesion	No blistering, 1,500 hrs (HDG or Galvalume) 3,000 hrs (Aluminum)	No blistering, 1,500 hrs (HDG or Galvalume) 3,000 hrs (Aluminum)
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25-35 @ 60°	HB Minimum	No Loss of Adhesion	No Loss of Adhesion	2T, No Loss of Adhesion	No blistering, 2,000 hrs (HDG or Galvalume) 4,000 hrs (Aluminum)	No blistering, 1,500 hrs (HDG or Galvalume) 3,000 hrs (Aluminum)
25-35 @ 60°	HB Minimum	No Loss of Adhesion	No Loss of Adhesion	2T, No Loss of Adhesion	No blistering, 2,000 hrs (HDG or Galvalume) 4,000 hrs (Aluminum)	No blistering, 1,500 hrs (HDG or Galvalume) 3,000 hrs (Aluminum)
25-35 @ 60°	HB Minimum	No Loss of Adhesion	No Loss of Adhesion	2T, No Loss of Adhesion	No blistering, 4,000 hrs (HDG, Galvalume or Aluminum)	No blistering, 1,500 hrs (HDG or Galvalume) 3,000 hrs (Aluminum)
25-35 @ 60°	HB Minimum	No Loss of Adhesion	No Loss of Adhesion	2T, No Loss of Adhesion	No blistering, 4,000 hrs (HDG, Galvalume or Aluminum)	No blistering, 1,500 hrs (HDG or Galvalume) 3,000 hrs (Aluminum)



Salt Spray ASTM B 117	Chemical Resistance ASTM D 1308	Kesternich Test (Acid Rain) ASTM G 87	Exterior Weathering ASTM D 4214, ASTM 2244	Abrasion Resistance ASTM D 968
No blistering, 1,000 hrs (HDG or Galvalume) 3,000 hrs (Aluminum)	No significant color change	No significant color change after 10 cycles of a SO2 chamber	Passes: 5 Hunter ΔE maximum color change; minimum #8 chalk rating	Passes 65 liters +/- 5 minimum of falling sand
No blistering, 1,000 hrs (HDG or Galvalume) 3,000 hrs (Aluminum)	No significant color change	No significant color change after 10 cycles of a SO2 chamber	Passes: 5 Hunter ΔE maximum color change; minimum #8 chalk rating	Passes 65 liters +/- 5 minimum of falling sand
No blistering, 1,000 hrs (HDG or Galvalume) 3,000 hrs (Aluminum)	No significant color change	No significant color change after 10 cycles of a SO2 chamber	Passes: 5 Hunter ΔE maximum color change; minimum #8 chalk rating	Passes 65 liters +/- 5 minimum of falling sand
No blistering, 1,000 hrs (HDG or Galvalume) 3,000 hrs (Aluminum)	No significant color change	No significant color change after 10 cycles of a SO2 chamber	Passes: 5 Hunter ΔE maximum color change; minimum #8 chalk rating	Passes 65 liters +/- 5 minimum of falling sand
No blistering, 1,000 hrs (HDG or Galvalume) 3,000 hrs (Aluminum)	No significant color change	No significant color change after 10 cycles of a SO2 chamber	Passes: 5 Hunter ΔE maximum color change; minimum #8 chalk rating	Passes 65 liters +/- 5 minimum of falling sand
No blistering, 1,000 hrs (HDG or Galvalume) 3,000 hrs (Aluminum)	No significant color change	No significant color change after 10 cycles of a SO2 chamber	Passes: 5 Hunter ΔE maximum color change; minimum #8 chalk rating	Passes 65 liters +/- 5 minimum of falling sand
No blistering, 2,000 hrs (HDG or Galvalume) 4,000 hrs (Aluminum)	No significant color change	No significant color change after 10 cycles of a SO2 chamber	Passes: 5 Hunter ΔE maximum color change; minimum #8 chalk rating	Passes 170 liters +/- 20 minimum of falling sand
No blistering, 2,000 hrs (HDG or Galvalume) 4,000 hrs (Aluminum)	No significant color change	No significant color change after 10 cycles of a SO2 chamber	Passes: 5 Hunter ΔE maximum color change; minimum #8 chalk rating	Passes 170 liters +/- 20 minimum of falling sand
No blistering, 2,000 hrs (HDG or Galvalume) 4,000 hrs (Aluminum)	No significant color change	No significant color change after 10 cycles of a SO2 chamber	Passes: 5 Hunter ΔE maximum color change; minimum #8 chalk rating	Passes 250 liters +/- 20 minimum of falling sand
No blistering, 2,000 hrs (HDG or Galvalume) 4,000 hrs (Aluminum)	No significant color change	No significant color change after 10 cycles of a SO2 chamber	Passes: 5 Hunter ΔE maximum color change; minimum #8 chalk rating	Passes 350 liters +/- 20 minimum of falling sand



[www.akzonobel.com/ccna](http://www.akzonobel.com/ccna)

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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