

TRINAR® TC

Exceptional 70% PVDF performance with improved durability and ease of use.

Product information and specifications for TRINAR TC high performance PVDF coatings

- Tough Coat (TC) is our latest innovation in PVDF technology, proven over decades of continuous development.
- Class-leading scratch, abrasion, and stain resistance to withstand harsh conditions.
- Increases flow and leveling, delivering efficiencies in the coil coating process.
- Now PFOA-free and meets all regulation requirements.
- Developed specifically for the coil coating market, TRINAR TC is available in a broad range of color and aesthetic options, providing an extensive portfolio of choices for every appearance.



Formulated for Optimization

AkzoNobel chemists have optimized the formula for improved scratch and abrasion resistance while also increasing the strength of the coating. This new generation of PVDF coating is stronger and more durable than competitive PVDF coatings.



Product Information

TRINAR TC, our latest innovation proven over decades of continuous development of 70% polyvinylidene fluoride (PVDF), and now PFOA-free, is tailored to the coil coating market. TRINAR TC is formulated from our latest proprietary acrylic resin technology with premium ceramic and inorganic pigmentation improving product performance. It provides increased resistance to abrasion and scratches during and after transport, fabrication and installation. In addition, it offers improved stain resistance and durability, enabling it to withstand harsh conditions and stay looking newer and cleaner over the life of the building.

TRINAR TC is also easier to work with and improves flow and leveling to improve coil coating productivity. Offered in a broad range of color and aesthetic options, and manufactured in a modular manufacturing facility for pinpoint color targeting and quality consistency, TRINAR TC improves PVDF product performance while meeting all current regulations.



System Performance

Coil coatings exhibit the best performance when a “system” approach is taken. Including the primer as part of the coating system allows the topcoat to perform at an optimal level by improving UV resistance and intercoat adhesion.



COOL CHEMISTRY® Series

TRINAR TC is also available in our COOL CHEMISTRY Series, which contains ceramic infrared reflective pigments 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, 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.

Contact Us

For more information, please contact:

Akzo Nobel Coatings Inc.
1313 Windsor Ave.
Columbus, OH 43211

T 614.294.3361

Scan here to download
the Canopy app:



akzonobel.coilcoatings.com/us

We supply the sustainable and innovative paints and coatings that our customers, communities – and the environment – are increasingly relying on. That's why everything we do starts with People. Planet. Paint. Our world class portfolio of brands – including Dulux, International, Sikkens and Interpon – is trusted by customers around the globe. We're active in more than 150 countries and have set our sights on becoming the global industry leader. It's what you'd expect from a pioneering paints company that's committed to science-based targets and is taking genuine action to address globally relevant challenges and protect future generations.

For more information
please visit www.akzonobel.com.

Options for every appearance

TRINAR TC	Standard smooth finish
TRINAR TC Pearl	Pearl / mica containing finish
TRINAR TC Matte	Low gloss / low sheen finish
TRINAR TC Brite	Finishes containing exotic pigmentation requiring protective clear coat
TRINAR TC PC	Metallic finish with protective clear coat
TRINAR TC Mirage	Color changing interference pearl finish
TRINAR TC with Printcoat	Standard smooth print finish

Physical Properties	Requirement	TRINAR TC Performance
Specular Gloss 60°, ASTM D 523	Medium and low gloss ranges	Controlled to custom spec ±5 units
Dry film hardness ASTM D 3363	F minimum	H+
Cross-Hatch Adhesion ASTM D 3359	No removal between scribed lines	No loss of adhesion
Reverse Impact ASTM D 2794	No removal of film	No loss of adhesion
T-Bend ASTM D 4145	Minimum of 2T with no pick-off at the area of the bend	2T, No loss of adhesion

Test Data

Humidity Resistance ASTM D 2247	1,000 hrs, few #8 blisters (maximum)	No blistering, 1,500 hrs (HDG or Galvalume)
Cleveland Condensing ASTM D 4585	1,500 hrs, no blistering, rusting or loss of adhesion	Meets or exceeds spec (HDG or Galvalume)
Water Immersion Resistance ASTM D 870	500 hrs, no loss of gloss, blistering, cracking or color change	Meets or exceeds spec
Salt Spray ASTM B 117	1,000 hrs, no blistering	Meets or exceeds spec (HDG or Galvalume)
Chemical Resistance ASTM D 1308	No significant color change after 24 hours exposure	No significant color change
Kesternich Test (Acid Rain) ASTM G 87	No significant color change after 10 cycles in a SO ₂ chamber	No significant color change
Exterior Weathering ASTM D 4214, ASTM 2244	10 years, 45° South Florida, max 5ΔE NBS color change, #8 chalk rating	Passes: 5 Hunter ΔE maximum color change #8 chalk rating @ 10 years
Abrasion Resistance ASTM D 968	The Abrasion Coefficient value of the organic coating shall be 40 minimum	Meets or exceeds spec