

The qualities of

COILTEC™ CF65

Where sustainability meets performance



Product information and specifications for COILTEC CF65 high-performance chrome-free primer

Notable Features of COILTEC CF65

- Specially formulated for the building products applications, such as metal roofing, siding and steel doors
- Formulated to perform on Galvalume®, Galfan® and Hot-Dipped Galvanized (HDG)
- No change to the color or appearance of the top coat
- Compatible with all current backers and topcoats, and with standard pretreatments
- Compatible with current chromated primers for easy conversion on the coating line
- Applies like current chromated primers

Product Information

Renowned for delivering sustainable innovations to the building products industry, AkzoNobel is proud to offer COILTEC CF65, a primer formulation that provides effective corrosion protection without the use of chromium.

COILTEC CF65 is polyester hybrid chemistry designed exclusively for metal substrates. It employs the same resin chemistry used in current (chrome-containing) primers, but incorporates the latest generation of anti-corrosive pigments. Thus, by combining field-proven proprietary resin chemistry with advanced pigment technology, AkzoNobel is able to deliver the most durable, completely chrome-free primer for the building construction market.

The performance of COILTEC CF65 is backed by nearly 20 years of test data which reveals corrosion resistance and flexibility that is comparable to the chromated primers in use today. The data encompasses accelerated test methods as well as natural exposure in various environments, including the strenuous conditions of South Florida and high corrosion coastal areas.

Designed with the coater in mind, converting to COILTEC CF65 is easy since COILTEC CF65 uses the same application guidelines as current chromated primers. This means no unique equipment or adjustments are required for application.

General System Information

COILTEC CF65 is a factory-applied primer finish that is administered through roll coating to first-quality substrates that are properly cleaned and pre-treated, and then oven-baked to cure. It is designed as the first coating layer to AkzoNobel's two-coat and three-coat paint systems.

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Application Characteristics

Film Thickness Topside 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; Pigmented backer (dry) = 0.30 – 0.40 mils. Total DFT for system = 0.90 – 1.10 mils. All measurements per ASTM D 5796.

Physical Properties	Test Method	POLYDURE®	CERAM-A-STAR®	TRINAR®
Specular Gloss	Determined per ASTM D 523 at a gloss meter angle of 60°	Typical system 35±5%; available in higher and lower gloss ranges.	Typical system 35±5%; available in higher and lower gloss ranges.	30±5%; available in lower gloss ranges
Pencil Hardness	Minimum pencil hardness, per ASTM D 3363	F	F	HB
Cross-Hatch Adhesion	No paint removal with Scotch #610 tape after cross-scoring with eleven horizontal and eleven vertical lines 1 mm apart, per ASTM D 3359	Pass	Pass	Pass
Impact Resistance	No visible paint removal with Scotch #610 tape after direct and reverse impact of 80-inch pounds, using 5/8" steel ball on Gardner Impact Tester, per ASTM D 2794	Direct & Reverse	Pass	Pass
T-Bend Adhesion	Per ASTM D 4145, no loss of adhesion when taped with Scotch #610 tape	2T	2T	2T
Test Data				
Cleveland Condensing	No blistering, rusting or loss of adhesion of the finish after exposure at 120°F, per ASTM D 4585	240 Hours	1000 Hours	1000 Hours
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	Pass	Pass	Pass
Salt Spray Resistance	Samples vertically scribed and subjected to 5% neutral salt spray for 1000 hours, per ASTM B 117, exhibit no blistering, no loss of adhesion and scribe creep no greater than 1/8"	Pass	Pass	Pass
Cyclic Corrosion Resistance	Samples vertically scribed and subjected to 0.5% salt solution with alternating dry and wet cycle for 1500 hours, per ASTM G85 Annex 5, scribe creep no greater than 1/8" and average edge creep no greater than 1/4"	Pass	Pass	Pass
Battelle – 12 months	Samples vertically scribed and exposed sheltered in 90°E orientation facing the ocean, no blistering, loss of adhesion and scribe creep, average edge creep no greater than 1/8", per ASTM D714.	Pass	Pass	Pass
Wet Stack – South Florida	Samples stacked on top of one another with the convex side facing upward against the backer of a duplicate panel to form a panel pair, exposure 0° per ASTM D7376, no corrosion or blistering after 6 month exposure	Pass	Pass	Pass



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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