CECO BUILDING SYSTEMS

COOL STANDARD COLOR CHART

SIGNATURE® 200 • Siliconized Polyester

Polar White is a Straight Polyester.

POLAR WHITE
SR .58 SRI 69

LIGHT STONE
SR .50 SRI 58

ASH GRAY
SR .48 SRI 56

SADDLE TAN
SR .48 SRI 56

HAWAIIAN BLUE
SR .32 SRI 35

RUSTIC RED
SR .36 SRI 40

BURNISHED SLATE
SR .28 SRI 29

FERN GREEN
SR .28 SRI 29

SIGNATURE® 300 • Low Gloss Colors

Kynar 500® • Hylar 5000®

NATURAL PATINA
SR .41 SRI 47

MEDIUM BRONZE
SR .33 SRI 36

SNOW WHITE
SR .65 SRI 79

ALMOND
SR .63 SRI 76

SLATE GRAY
SR .37 SRI 41

CLASSIC GREEN
SR .28 SRI 29

PACIFIC BLUE
SR .29 SRI 31

COLONIAL RED
SR .34 SRI 37

Roof panels, wall panels and roll-formed trim are available in all Signature® 300 colors.

For the most current information available, visit our website at cecobuildings.com.
26-gauge material available in all colors.
24-gauge material available in Light Stone and Polar White only.
A 25-year limited paint warranty available for all colors upon written request.

Final selection should be made from actual color chips.

WHAT IS **Solar Reflectivity (SR)?**

Solar reflectivity or reflectance is the ability of a material to reflect solar energy from its surface back into the atmosphere. The SR value is a number from 0 to 1.0. A value of 0 indicates that the material absorbs all solar energy and a value of 1.0 indicates total reflectance. Energy Star® requires an SR value of 0.25 or higher for steep slope (above 2:12) roofing and an SR value of 0.65 or higher for low slope (2:12 or less) roofing. For more information, please go to www.energystar.gov.

WHAT IS **Solar Reflectance Index (SRI)?**

The SRI is used to determine compliance with LEED requirements and is calculated according to ASTM E 1980 using values for reflectance and emissivity. Emissivity is a material's ability to release absorbed energy. To meet LEED requirements, a roofing material must have an SRI of 29 or higher for steep slope (above 2:12) roofing and an SRI value of 78 or higher for low slope (2:12 or less) roofing. For more information, please go to www.usgbc.org.

THE CECO BUILDERS - THE CONSTRUCTION PROFESSIONALS

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CSC0408-15M

Signature® 200 Specifications

Product Name

Signature® 200 - A premium coating with proven, proprietary polymer and premium pigments.

Product Description

Uses: Signature® 200 is a factory-applied and oven-baked protective coating used on GALVALUME® or galvanized steel substrate. Signature® 200 combines excellent physical characteristics and aesthetic values for metal panels and components. Its uses in architectural, industrial, commercial, residential and institutional metal construction are numerous. The Signature® 200 coating is formulated for hardness and flexibility, making it a versatile and durable coating system when applied over a proprietary, corrosion-resistant primer.

Limitations: Since Signature® 200 coatings require baking to cure, they cannot be field applied.

Composition and Materials: Signature® 200 is a thermoset coating consisting of a proprietary polyester resin modified by silicone resin intermediate. Signature® 200 uses premium, proven-durability ceramic pigments which give superior exterior protection and resistance to chemical corrosion and ultraviolet radiation.

Color: Since color is integral to the overall appearance of building design, a full range of popular colors is available. In addition, custom colors can be provided (minimum quantity requirements may apply).

Installation

The Signature® 200 system is factory applied over metal substrates using the coil coating process. Surfaces shall be chemically cleaned and pretreated according to manufacturers' specifications to remove contaminants and provide acceptable corrosion resistance. Total dry film thickness of topcote (Signature® 200 protective coating and primer) is within the 0.9 - 1.05 range for coil coated applications. The pretreated substrate is primed with 0.2 - 0.25 mil of a high performance primer. The Signature® 200 protective coating is applied over the primed substrate at 0.7 - 0.8 mil. The Signature® 200 systems incorporate outstanding exterior durability, while affording superior coil line application and post-forming capabilities.

Warranty

The Signature® 200 warranty is backed by the strictest production specifications and is one of the strongest in the industry. Details and further information are available by contacting the manufacturer.

Maintenance

The factory applied finish of Signature® 200 is a baked-on coating designed to give trouble-free performance for years with little service required. However, mild detergents and/or mineral spirits are recommended for removal of surface dust and airborne chemical deposits. Air-dry touch-up paints are also available for repair of minor scratches.

Technical Assistance

Complete technical information and literature is available from the manufacturer.

Technical Data/Physical Properties

PROPERTY & VALUE	TEST DESIGNATION
Performance Specification	
Specular Gloss: Signature® 200 systems are 25-50% at a glossmeter angle of 60°.	ASTM D523-89
Pencil Hardness: Minimum Pencil Hardness, using Eagle Turquoise pencils, is F-2H.	ASTM D3363-05
Direct and Reverse Impact	
Adhesion: No visible paint removal with Scotch #610 cellophane tape after impact of 3x metal thickness inch-lbs. on Gardner Impact Tester.	ASTM D2794-93 (Not to include Galvalume® coating failure)
Abrasion Resistance: 40 liters minimum of falling sand.	ASTM D968-93
Bend Adhesion: No loss of adhesion with Scotch #610 cellophane tape when subjected to 2T diameter 180° bend test.	ASTM D4145-83 (Not to include Galvalume® coating failure)
Accelerated Tests	
Humidity: No blistering, cracking, peeling, loss of gloss or softening of finish after 1,000 hrs. of exposure to 100 percent humidity at 100°F ± 5°F.	ASTM D2247-02
Salt Spray Resistance: 1,000 hrs. exposure at 5% neutral salt spray, creep from scribe no more than 1/8" (3mm), few No.8 blisters when applied.	ASTM B117-03

Signature® 300 Specifications

Product Name

Signature® 300 - A premium fluoropolymer low gloss coating, produced with KYNAR 500® or HYLAR 5000® resin.

Product Description

Basic Uses: Signature® 300 coatings are specified by leading architects and used by manufacturers of metal curtain wall and other building products as a long-life exterior finish for aluminum, galvanized steel and Galvalume®. The liquid coating is factory applied and oven baked on properly prepared and primed substrates. Signature® 300 coatings typically are used as exterior finishes for metal roofing, siding, louvers, fascia, curtain wall, spandrel paneling and column covers. The building components can be post-formed from pre-coated coil stock.

Limitations: Since Signature® 300 coatings require baking to cure, they cannot be field applied. Signature® 300 coatings are not approved for use on hot or cold rolled bare steel substrates intended for exterior exposure.

Composition and Materials: Signature® 300 coatings are based on 70% KYNAR 500® or HYLAR 5000® PVDF fluoropolymer resin. They also are formulated with highly durable pigments and solvents blended for optimum application properties.

Color: Signature® 300 coatings are available in a wide range of standard, field-proven colors. Special colors are available (minimum quantity requirements may apply) if approved by manufacturer.

Technical Data

(See Chart below.)

Installation

Signature® 300 coatings may be coil coated on HDG steel, Aluminum or Galvalume® substrates that have been pretreated and primed according to manufacturer specifications. The entire system is applied in the factory and oven baked. Topcoat dry film thicknesses are within the 0.9 - 1.1 mil range (Note: which refers to the combination of primer and the Signature® 300 protective coating) for coil coated applications. The pretreated substrate is primed with 0.2 - 0.30 mil of a high performance primer. The Signature® 300 protective coating is applied over the primed substrate at 0.7 - 0.8 mil. The flexibility of the system permits coil-coated stock to be post-formed by either a roll former or press brake. All applicators of Signature® 300 coatings must have the approval of manufacturer. A list of approved applicators is available upon request.

Warranty

The Signature® 300 warranty is backed by the strictest production specifications and is one of the strongest in the industry. Details and further information are available by contacting the manufacturer.

Maintenance

Signature® 300 coatings are virtually maintenance free and non-staining. If necessary, surface residue may be removed by conventional cleaning solvents or detergents. Minor scratches may be touched up with a specially formulated, field-applied coating of the same color. Signature® 300 coatings can be used in conjunction with conventional sealants and caulking compounds. Mortar, plaster, etc. will neither adhere to nor stain the surface.

Technical Assistance

Complete technical information and literature is available from the manufacturer. Signature® is a registered trademark of NCI Group, Inc. KYNAR 500® is a registered trademark of Arkema, Inc. HYLAR 5000® is a registered trademark of Solvay Solexis. GALVALUME® is a registered trademark of BIEC International Inc.

Technical Data/Physical Properties of Signature® 300

PROPERTY	VALUE	TEST DESIGNATION
Gloss @ 60°	8 - 15	ASTM D523
Pencil Hardness	HB-Min. (Eagle Turq.)	ASTM D3363-05 (NCCA II-12) (2)
Post-Formability, 180° bend around 1/8" mandrel	(1) Acceptable	ASTM D522-93a
Adhesion	(2) Acceptable	ASTM D3359-02 (NCCA II-5)
Abrasion Resistance, Falling Sand	67 liters	ASTM D968-93
Accelerated Tests		
Weatherometer: 1,000 hr. exposure	(3) Acceptable	ASTM D3361
Humidity: 2,000 hrs. exposure @ 100% relative humidity	(4) Acceptable	ASTM D2247-92
Salt Spray: 1,000 hrs. in 5% salt fog @ 95°F	(5) Acceptable	ASTM D714-02 (NCCA III-2) ASTM B117
Cyclic Salt Fog/UV exposure:	(6) Acceptable	ASTM D5894
Chemical Spot Test:	(7) Acceptable	ASTM D1308

NOTES:

(1) Flexible to point of metal rupture without coating rupture.

(2) No removal of finish after 1/16-inch cross-hatching to bare metal, to impact limits or point of metal rupture.

(3) No adhesion loss. Chalk rating of 8. Color change less than 5ΔE.

(4) Rating of 10, no blistering, cracking per ASTM 1654.

(5) No more than 1/16-inch average creepage or loss of adhesion from scribed line rating of 7, no blistering rating of 10.

(6) No more than 1/32-inch creepage or loss of adhesion from scribed line, rating of 8, no blistering rating of 10.

(7) 10% Hydrochloric acid solution 24 hrs. no visible changes. 25% Sodium Hydroxide 1 hr. test no color change, no blistering.