



Signature® 300 and Signature® 300 Metallic SPECIFICATIONS

SPECIFICATIONS

Product Name

Signature® 300 and Signature® 300 Metallic, 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 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 manufacturer.

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TECHNICAL DATA

PHYSICAL PROPERTIES Signature® 300

Property	Value	Test Designation
Gloss @ 85°	8-15	ASTM D523
Film Hardness	HB-Min (Eagle Turq.)	ASTM D3363 (NCCA II-12) (2)
Impact Resistance, .5" Ball Indenter, 3x Metal Thickness	(8) Acceptable	ASTM D2794
Formability:		
180° bend around 1/8" mandrel	(1) Acceptable	ASTM D522
Adhesion	(2) Acceptable	ASTM D3359 (NCCA II-5)
Abrasion Resistance, Falling Sand	67 Liters	ASTM D968
Accelerated Weathering, 5,000 hrs. exposure	(3) Acceptable	ASTM D4587, G53, or G154
Humidity, 3,000 hrs.	(4) Acceptable	ASTM D2247, Apparatus A1
Salt Spray, 2,000 hrs.	(5) Acceptable	ASTM B117 (NCCA III-2)
Cyclic Salt Fog/UV exposure, 3,000 hrs.	(6) Acceptable	ASTM D5894
Chemical Spot Test	(7) Acceptable	ASTM D1308

- (1) No evidence of cracking, and no loss of adhesion to the point of metal 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 cracking, peeling, blistering, loss of adhesion or corrosion of base metal. Chalk rating of 8 per ASTM D4214. Color change less than 2ΔE per ASTM D2244.
- (4) Rating of 10, no blistering, cracking, creepage or corrosion per ASTM D1654.
- (5) No more than 5/32-inch average creepage from scribed line rating of 7, field test rating of 8 per ASTM D1654.
- (6) No more than 1/32-inch creepage from scribed line, rating of 8. No blistering, rating of 10 per ASTM D1654.
- (7) 10% Hydrocoloric acid solution 24 hours no visible changes. 25% sodium hydroxide 1 hour test no color change, no blistering.
- (8) Reverse impact and direct impact, no cracking or loss of adhesion.

Signature® is a registered trademark of Metal Building Components, L.P. GALVALUME® is a registered trademark of BIEC International Inc. Descriptions and specifications contained herein were in effect at the time this publication was approved for printing. The manufacturer reserves the right to discontinue products at any time or change specifications and/or designs without notice and without incurring obligation.

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