

Signature® 300 and Signature® 300 Metallic Specifications

SPECIFICATIONS

Product Name

Signature® 300 and Signature® 300 Metallic, a premium fluoropolymer low gloss coating, produced with 70% Polyvinylidene Fluoride PVDF resin.

Product Description/Basic Use Signature® 300 coatings are specified by leading architects and used by manufacturers of metal curtain wall and other building products as a longlife 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% 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 coilcoated 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.

Signature® is a registered trademark of NCI Group, Inc. GALVALUME® is a registered trademark of BIEC International Inc.

TECHNICAL DATA

PHYSICAL PROPERTIES Signature® 300

Property	Value	Test Designation
Gloss @ 60° Film Hardness Impact Resistance, .5" Ball Indenter, 3x Metal Thickness	8-15 HB-Min (Eagle Turq.) (8) Acceptable	ASTM D523 ASTM D3363 (NCCA II-12) (2) ASTM D2794
Formability: 180° bend around 1/8" mandrel Adhesion Abrasion Resistance, Falling Sand	(1) Acceptable (2) Acceptable 67 Liters	ASTM D522 ASTM D3359 (NCCA II-5) ASTM D968
Accelerated Weathering, 5,000 hrs. exposure Humidity, 3,000 hrs. Salt Spray, 2,000 hrs.	(3) Acceptable (4) Acceptable (5) Acceptable	ASTM D4587, G53, or G154 ASTM D2247, Apparatus A1 ASTM B117 (NCCA III-2)
Cyclic Salt Fog/UV exposure, 3,000 hrs. Chemical Spot Test	(6) Acceptable (7) Acceptable	ASTM D5894 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 5ΔE 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% Hydrochloric 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.

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