



Signature[®] 300 and Signature[®] 300 Metallic SPECIFICATIONS

SPECIFICATIONS

Product Name

Signature[®] 300

A premium fluorocarbon 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 steel substrates intended for exterior exposure.

Composition and Materials: Signature[®] 300 coatings are based on KYNAR 500[®] or HYLAR 5000[®] polyvinylidene fluoride (PVF2). They also are formulated with high-

ly 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 if approved by MBCI.

Technical Data

See Chart below.

Installation

Signature[®] 300 coatings may be coil coated on HDG Steel, Aluminum or Galvalume Sub-strates that have been pretreated and primed according to MBCI specifications. The entire system is applied in the factory and oven baked. Topcoat dry film thicknesses are within the 0.8 - 1.0 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 - 0.25 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 MBCI. 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 MBCI.

Maintenance

Signature[®] 300 coatings are virtually maintenance free and non-staining. If necessary, surface residue may be easily 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 MBCI.

Signature[®] is a registered trademark of MBCI.

KYNAR 500[®] is a registered trademark of ELF Atochem.

HYLAR 5000[®] is a registered trademark of Ausimont.

GALVALUME[®] is a registered trademark of BIEC International Inc.

TECHNICAL DATA

PHYSICAL PROPERTIES OF Signature[®] 300

PROPERTY	VALUE	TEST DESIGNATION
Gloss @ 60°	25-35	ASTM D523-89
Pencil Hardness	HB-Min. (Eagle Turq.)	ASTM D3363-05 (NCCA II-12) (2)
Post-Formability, 180° bend around 1/8-inch 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, 2,000 hr. exposure	(3) Acceptable	Fed. Test Meth. 6152; Fed. Std. 141a ASTM D822-89 or ASTM G-23-93
Humidity, 2,000 hrs. exposure @ 100% relative humidity	(4) Acceptable	ASTM D714-02 ASTM D2247-92
Salt Spray, 1,000 hrs. in 5% salt fog @ 95°F	(5) Acceptable	ASTM D714-02 (NCCA III-2)
Cyclic Salt Fog/UV exposure	(6) Acceptable	ASTM D5894
Chemical Spot Test	(7) Acceptable	ASTM D308

(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 objectionable chalking, color change or adhesion loss.

(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 10, no blistering.

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

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

Descriptions and specifications contained herein were in effect at the time this publication was approved for printing. MBCI reserves the right to discontinue products at any time or change specifications and/or designs without notice and without incurring obligation.

For the most current information available, visit our web site at www.mbcinc.com



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