



### PRODUCT DESCRIPTION

CORAFロン MC coil coatings are second-generation thermosetting fluoropolymer coatings designed to provide an automotive-quality finish with bright colors and high gloss on high profile architectural building products where long term aesthetics are desired. They meet or exceed AAMA 620/621 and the performance requirements (section 7) of American Architectural Manufacturers Association (AAMA) 2605-05 Voluntary Specification, Performance Requirements and Test Procedures for Superior Performing Organic Coatings on Aluminum Extrusions and Panels. CORAFロン MC coatings are available in a palette of rich, vivid colors and a full range of glosses from satin to high luster. They offer excellent adhesion to a wide range of metal substrates and are approved for use on properly cleaned and treated steel substrates such as G90 hot dip galvanized, Galvalume<sup>®</sup> and Zinalume<sup>®\*</sup>. They are not intended for use on hot or cold rolled steel substrates for exterior exposure applications.

### SYSTEM OVERVIEW

CORAFロン MC coil coatings are two- or three-coat, fluoropolymer systems. The coatings are designed for use over properly cleaned and pretreated aluminum or clad steel substrates. CORAFロン MC coil coatings cure chemically into a durable, inert fluoropolymer system to attain bright, vivid colors, including metallics, and a wide

range of gloss levels (20 - 80%).

CORAFロン MC coatings offer a brilliant, low-maintenance finish that is resistant to marring and abrasion while providing excellent gloss and color retention. CORAFロン MC coil coatings require minimal maintenance with excellent field recoatability.

### COMMERCIAL USES

CORAFロン MC coil coatings have been formulated to provide exceptional visual appeal in a wide range of architectural and other applications. CORAFロン MC coatings are available in a full palette of rich, vivid colors plus metallics, blacks, and whites. Based upon durability-proven fluoropolymer chemistry, CORAFロン MC coatings provide exceptional color

retention and hiding ability, plus gloss levels from satins to high luster. Their exceptional versatility makes them an excellent choice for applications such as gas station buildings, pylons, canopies, building panels, roofs, doors, decks, signs, billboards, poles, truck trailers, exterior light fixtures, fences, and many others.

### DURABILITY

CORAFロン MC coatings are formulated to provide ultimate resistance to weathering and ultraviolet degradation. Their chemically inert composition makes them a good choice for use in industrial environments. CORAFロン MC coatings are highly resistant to marring and abrasion, withstand

airborne pollution without staining or discoloring, and retain their excellent long term appearance. The coatings require little maintenance and can be easily cleaned with mild detergents. Air dry versions of CORAFロン coatings are available for touch-up or repair painting in the field.

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\*Galvalume is a registered trademark of BIEC International, Inc.

Zinalume is a registered trademark of BlueScope Steel limited. Steelscape, Inc. holds exclusive rights to the Zinalume trademark within the U.S.



<b>CORAFLON MC SPECIFICATIONS</b>	
<b>Dry Film Thickness</b> ASTM D1400	0.15-0.25 mil primer 0.70-0.80 mil color coat 0.60-0.70 mil clear coat
<b>Gloss</b> ASTM D523 @ 60°	<10-80
<b>Pencil Hardness</b> ASTM D3363	HB - H
<b>Flexibility</b> T-bend, ASTM D4145	1 T-bend; No pick-off (aluminum) 2 T-bend; No pick-off (steel)
<b>Adhesion</b> ASTM D3359 Reverse impact 1/16" crosshatch	No adhesion loss
<b>Reverse Impact</b> ASTM D2794 1500 x metal thickness (aluminum) 3000 x metal thickness (coated steel)	No cracking <sup>1</sup> or pick-off No cracking or adhesion loss No cracking or adhesion loss
<b>Abrasion — Falling Sand</b> ASTM D968	50 liters min.
<b>Acid Resistance</b> ASTM D1308 10% muriatic acid — 15 minutes AAMA 620/621 nitric acid vapor — 30 minutes	No discoloration  <5ΔE color change
<b>Acid Rain Test</b> Kesternich SO <sub>2</sub> , DIN 50018	10 cycles min. No objectionable color change
<b>Alkali Resistance</b> ASTM D1308 10%, 25% NaOH, 1 hr.	No effect
<b>Salt Spray Resistance</b> ASTM B117, 1000 hrs. (steel)  ASTM B117, 4000 hrs. (aluminum)  5% salt fog @ 95°F	1/8" max. average scribe creep. None or few #8 field blisters  1/16" max. average scribe creep. None or few #8 field blisters
<b>Humidity Resistance</b> ASTM D714, ASTM D2247, 1500 hrs. (steel)  ASTM D714, ASTM D2247, 4000 hrs. (aluminum) 100% relative humidity @ 95°F	None or few #8 field blisters  None or few #8 field blisters
<b>Exterior Exposure</b> 10 yrs. @ 45°, south Florida ASTM D2244 ASTM D4214 ASTM B244 (Erosion)	Max. 5 fade Max. 8 chalk <0.01 mils/year

<sup>1</sup> Excluding spangle cracking

### CORAFLON MC WARRANTY INFORMATION

PPG offers a comprehensive warranty on CORAFLON MC coil coatings. For complete warranty information and a copy of the CORAFLON MC coil coatings warranty, please call PPG at **1-800-258-6398**.

