



PRODUCT DESCRIPTION

ENVIRON waterborne coil coatings were developed over 40 years ago due to ever increasing governmental regulations on volatile organic compounds (VOC). The water based acrylic latex coating is combined with ceramic pigments, creating a proprietary, environmentally friendly, high performance coating system. The systems, designed for use on aluminum substrates, offer significant advantages to coil coaters such as high line speed application to maximize coil coating productivity. End users benefit from the wide range of building component applications available and its conformance with “Green Initiatives” required by the market.

SYSTEM OVERVIEW

ENVIRON coatings are two-coat, 1 mil total thickness systems composed of a low bake waterborne primer and waterborne topcoats. The system is designed for use over properly cleaned and pretreated aluminum. On most approved, quality aluminum substrates, ENVIRON primers can be run “clean only,” thus eliminating the need for pretreatment and its associated waste disposal problems. ENVIRON topcoats are available in a wide range of standard colors or as custom color-matched formulations. ENVIRON coatings are

chrome free and contain 65% less VOCs than traditional solvent based polyester coatings. By reducing the amount of solvent incineration required when they are applied at the factory, ENVIRON coatings reduce green house gas (GHG) emissions and help protect the ozone layer. The minimized VOC level reduces solvent exposure levels to factory workers, as well as reduces purchasing and waste disposal costs. ENVIRON coatings can be thinned using water, therefore creating less odor and minimizing the risk of solvent vapor ignition.

COMMERCIAL USES

ENVIRON coatings have been formulated for use in a variety of prepainted aluminum applications. With its unique environmental and performance advantages, ENVIRON coatings are the

premier waterborne acrylic coating used today for residential aluminum building products such as siding, soffit, gutters and trim.

DURABILITY

In addition to the environmental benefits, over 40 years of exposure testing has proven that the combination of inorganic pigmentation and highly-durable acrylic latex resin technology used in ENVIRON coatings provide greater durability than standard polyester coatings used in the aluminum building products market. ENVI-

RON coatings perform substantially better for color & gloss retention, as well as chalk and dirt resistance. ENVIRON coatings are resistant to staining or “tiger stripping” and are easily cleaned with mild cleaning agents. The coatings require little maintenance and are resistant to water staining and softening.



PPG Glass, Coatings and Paint for Sustainable Design

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ENVIRON SPECIFICATIONS	
Aluminum Substrate	
Dry Film Thickness (nominal) ASTM D1005	0.20-0.30 mil primer 0.70-0.80 mil topcoat
Gloss ASTM D523 @ 60°	3-80+
Pencil Hardness ASTM D3363	HB min.
Flexibility T-bend, ASTM D4145	2 T-bend, No pick-off 3 T-bend, No cracking
Adhesion ASTM D3359 Reverse impact 1/16" crosshatch	No adhesion loss
Reverse Impact ASTM D2794	No cracking or pick-off
Abrasion — Falling Sand ASTM D968	30 liters min.
Acid Resistance ASTM D1308 10% sulfuric acid, 24 hrs.	No discoloration
AAMA 2605 10% nitric acid spot, 15 minutes	No discoloration
Salt Spray Resistance ASTM B117, 1000 hrs. 5% salt fog @ 95°F	1/8" max. average scribe creep. None or few #8 field blisters
Humidity Resistance ASTM D714, ASTM D2247, 1500 hrs. 100% relative humidity @ 95°F	1/8" max. average scribe creep. None or few #8 field blisters
Exterior Exposure 5 yrs. @ 45°, south Florida ASTM D2244 ASTM D4214	Max. 5 fade Max. 8 chalk

ENVIRON WARRANTY INFORMATION

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

