



PRODUCT DESCRIPTION

ENVIRON ST 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 exclusively on steel substrates including hot dip galvanized, Galfan[®], Galvalume[®], and Zinalume^{®,*} 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 ST coatings are two-coat systems composed of a solvent-borne chromated primer and a water-borne topcoat. The system is designed for use over properly cleaned and pretreated hot dip galvanized steel, Galfan, Galvalume, and Zinalume. ENVIRON ST topcoats are available in a wide range of standard colors or as custom color-matched formulations. By reducing the amount of solvent incineration required

when they are applied at the factory, ENVIRON ST topcoats reduce green house gas (GHG) emissions and help protect the ozone layer. The minimized VOC level in the topcoat reduces solvent exposure levels to factory workers, as well as reduces purchasing and waste disposal costs. ENVIRON ST topcoats can be thinned using water, therefore creating less odor and minimizing the risk of solvent vapor ignition.

COMMERCIAL USES

ENVIRON ST coatings have been formulated for use in a variety of prepainted steel applications. Their high durability and cost efficiency makes them a good choice for applications such as roofing, commercial building panels, agricultural buildings, industrial construction, pre-engineered buildings, and post frame structures.

ENVIRON ST coatings feature waterborne, low-VOC technology and allow high speed line application to maximize coil coating productivity. In addition, these waterborne coatings require little or no solvent for reduction adding to its environmental appeal.

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 ST coatings provide greater durability than standard polyester coatings used in the steel building products market. ENVIRON ST

coatings perform substantially better for color & gloss retention, as well as chalk and dirt resistance. ENVIRON ST coating 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.

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* Galfan is a registered trademark of ILZRO

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.



PPG Glass, Coatings and Paint for Sustainable Design

ENVIRON ST coatings are just one of the EcoLogical Building Solutions™ from PPG.



ENVIRON ST SPECIFICATIONS	
	Coated Steel ¹ 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 hours	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, 1000 hrs. 100% relative humidity @ 95°F	None or few #8 field blisters
Exterior Exposure 5 yrs. @ 45°, south Florida ASTM D2244 ASTM D4214	Max. 8 fade Max. 6 chalk

¹Coated Steel includes the following types of steel: G90 hot dip galvanized, Galfan, Galvalume, and Zinalume.

ENVIRON ST WARRANTY INFORMATION

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

