



PRODUCT DESCRIPTION

DURASTAR polyester coil coatings have been developed primarily to meet the exterior durability requirements of agricultural, industrial, and pre-engineered buildings. They are based upon the latest technology in highly durable polyester resin chemistry.

DURASTAR coatings deliver an excellent balance of exterior gloss and color retention, good chalk resistance, forming flexibility, and over-all cost effectiveness.

DURASTAR coatings use only the most highly durable pigments available to obtain long term colorfastness properties unequalled by any polyester coating system in the industry.

SYSTEM OVERVIEW

DURASTAR polyester coil coatings are designed for one or two-coat application on aluminum and two-coat application on steel substrates. They are formulated using proven, field-tested resin systems to provide the durability required for most agricultural, industrial, and pre-engineered building panel systems. DURASTAR coil coatings should be applied on properly cleaned and pretreated aluminum and steel substrates, including hot dip galvanized steel, Galvalume®, and Zinalume®.*

Recommended primer dry film thickness is a nominal 0.20 mil over hot dip galvanized and a nominal 0.25 mil over Galvalume and recommended topcoat thickness is a nominal 0.75 mil. Our new durable DURASTAR coatings technology has the added advantage of better recoatability compared to siliconized polyesters. The DURASTAR coating system can be applied at high line speeds for maximum production efficiency.

COMMERCIAL USES

DURASTAR coil coatings can be used to beautify and protect roofing and side wall panels as well as general building components for agricultural, industrial and pre-engineered buildings. DURASTAR coatings can also be applied to tractor

trailers and high end garage and entry door systems. With improved flexibility over siliconized polyester, these coatings are perfect for roll-forming multiple building panel profiles.

DURABILITY

DURASTAR polyester coatings have been developed to give excellent durability in real life outdoor exposures. Comparative south Florida exposure testing shows excellent gloss and color retention compared to standard and siliconized polyesters. The coatings exhibit excellent

resistance to the damaging effects of ultraviolet radiation, weather, and humidity. DURASTAR coil coatings offer excellent moisture resistant properties and ease of cleanability for long-term building aesthetics.

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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.



DURASTAR SPECIFICATIONS		
	Aluminum Substrate	HDG/Galvalume Substrate
Dry Film Thickness (nominal) ASTM D1005	0.2 mil primer* (optional) 0.75 mil topcoat	0.2 mil primer (HDG) 0.25 mil primer (Galvalume) 0.75 mil topcoat
Gloss ASTM D523 @ 60°	10-80+	10-80+
Pencil Hardness ASTM D3363	F-2H	F-2H
Flexibility T-bend, ASTM D4145	1-2 T-bend; No pick-off 2T: NPO on < .040" substrate	2 T-bend; No pick-off 2T: NPO on < .040" substrate
Solvent Resistance ASTM D5402	100+ MEK double rubs	100+ MEK double rubs
Reverse Impact ASTM D2794	1500 x metal thickness No pick-off	3000 x metal thickness No pick-off
Salt Spray Resistance ASTM B117, 1000 hrs. 5% salt fog @ 95°F	No face blistering Max. average 1/8" scribe creep	None or few #8 blisters on face; Max. average 1/8" scribe creep
Humidity Resistance ASTM D714, ASTM D2247, 1000 hrs 100% relative humidity @ 95°F	None or few #8 face blisters	None or few #8 face blisters; No cracking, loss of gloss, or delamination

* Approved pretreatments for direct to aluminum applications are PT1500 and B-1402W.

DURASTAR WARRANTY INFORMATION

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

