



PRODUCT DESCRIPTION

DURANAR SPF fluoropolymer coil coatings are designed to provide outstanding aesthetics, durability, and long term IR reflectivity in a wide range of architectural uses under normal environmental conditions. More than 30 years of DURANAR field use combined with infrared reflecting ceramic pigments creates a new standard of excellence in architectural fluoropolymer finishes. DURANAR SPF coil coatings combine IR reflective pigment technologies and PPG proprietary resin, with 70% of the resin system being fluoropolymer-based. The coatings are highly resistant to chalking, fading, chipping, and peeling when properly applied by an approved applicator. DURANAR SPF coil coatings are designed to comply with the ENERGY STAR® solar reflectance limits established for steep-slope or low-slope roofing products. 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. They are approved for use on properly cleaned and treated aluminum and coated steel substrates such as G90 hot dip galvanized, Galfan®, Galvalume®, and Zinalume®*. They are not intended for use on hot or cold rolled steel substrates for exterior exposure applications.

SYSTEM OVERVIEW

DURANAR SPF IR reflective coatings are multi-coat systems consisting of a nominal 0.2 mil corrosion inhibitive primer, a 0.75 mil fluoropolymer topcoat, and a 0.5 mil clearcoat, when applicable. They are available in a wide range of consistent, stable colors that meet ENERGY STAR® requirements for IR reflective roof products. They are extremely durable,

providing long-term solar reflectivity as well as resistance to chemical attack and surface damage caused by acid rain, salt spray, and humidity encountered under normal environmental conditions. DURANAR SPF coil coatings require minimal maintenance and minor scratches can be easily repaired in the field.

COMMERCIAL USES

DURANAR SPF coil coatings are formulated to provide excellent performance against weathering in all environments. The cooling effects of DURANAR SPF coatings will offer potential benefits such as reduced air conditioning costs for commercial and

residential construction, less product expansion and contraction, plus improved comfort levels for building occupants. The DURANAR SPF system is an excellent choice for architectural applications such as roof panels, building panels, curtain walls, and store fronts.

DURABILITY

DURANAR SPF coil coatings are chemically inert, providing excellent resistance to color and gloss fade as well as environmental stress including acid rain and ultraviolet attack. The coatings require very little maintenance, and most surface contaminants may be removed by conventional detergents or cleaning solvents. (Harsh chemicals, abrasives or solvents must not be used on DURANAR

coated surfaces.) All pigments are fully tested in south Florida for sustainable solar reflectance prior to approval for use in any DURANAR SPF coil coating system. Additionally, DURANAR SPF coatings are tested at exposure sites throughout the world in all types of climatic and industrial conditions to ensure the coatings' performance and durability.

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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.



DURANAR SPF SPECIFICATIONS		
	Aluminum Substrate	Coated Steel ¹ Substrate
Dry Film Thickness (nominal) ASTM D1400	0.20 mil primer 0.75 mil topcoat	0.20 mil primer 0.75 mil topcoat
Gloss ASTM D523 @ 60°	25 - 35	25 - 35
Solar Reflectance ASTM 903		
Steep Slope:	>25% Initial; >15% after 3 years	>25% Initial; >15% after 3 years
Low Slope:	>65% Initial; >50% after 3 years	>65% Initial; >50% after 3 years
Pencil Hardness ASTM D3363	HB - H	HB - H
Flexibility² T-bend, ASTM D4145	1 T-bend; No pick-off	2 T-bend; No pick-off
Adhesion ASTM D3359	No adhesion loss	No adhesion loss
Reverse Impact ASTM D2794	1500 x metal thickness; No cracking or adhesion loss	3000 x metal thickness; No cracking or adhesion loss
Acid Resistance ASTM D1308		
10% muriatic acid — 24 hrs.	No effect	No effect
20% sulfuric acid — 18 hrs.	No effect	No effect
Acid Rain Test Kesternich SO ₂ , DIN 50018	10 cycles min. No objectionable color change	10 cycles min. No objectionable color change
Alkali Resistance ASTM D1308	No effect	No effect
10%, 25% NaOH, 1 hr.		
Salt Spray Resistance ASTM B117	No face blistering; Max. average 1/16" scribe creep. Passes 4000 hrs.	None or few #8 blisters; Max. average 1/8" scribe creep. Passes 1000 hrs.
5% salt fog @ 95°F		
Humidity Resistance ASTM D714, ASTM D2247	Passes 4000 hrs. No #8 blisters	Passes 1500 hrs. No #8 blisters
100% relative humidity @ 95°F		
Exterior Exposure 10 yrs. @ 45°, south Florida		
ASTM D2244	Max. 5 fade	Max. 5 fade
ASTM D4214	Max. 8 chalk	Max. 8 chalk

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

² Fracturing or rupturing of substrate will rupture coatings. Heavy gauge and clad steel substrates impose limitations on formability.

DURANAR SPF WARRANTY INFORMATION

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

