



PRODUCT DESCRIPTION

DURANAR PLUS fluoropolymer coil coatings are two-coat, thick-film systems designed to provide outstanding aesthetics and durability in a wide range of architectural uses under aggressive environmental conditions. More than 15 years of field use have proven them to be the standard of excellence in architectural fluoropolymer finishes. DURANAR PLUS coil coatings combine PPG proprietary resin and pigment technologies with 70% of the resin system being fluoropolymer base resins. The coatings are flexible and highly resistant to abrasion, chalking, fading, chipping, and peeling when properly applied by an approved applicator. DURANAR PLUS coil coatings 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.

DURANAR LG, a low luster, matte finish for DURANAR PLUS coil coating formulations, is also available for use where non-reflectance is required or desired, such as for airport, government, and military applications. DURANAR LG provides a unique appearance that is functional and aesthetically appealing. Its low-luster reflectance provides a smoother appearance to walls or roof panels, and it is available in any color in which DURANAR PLUS coil coatings are offered.

SYSTEM OVERVIEW

DURANAR PLUS coatings are two-coat, thick-film systems consisting of a nominal 0.8 mil each of corrosion inhibitive primer and fluoropolymer topcoat. They are ideal for applications requiring greater flexibility as well as abrasion and corrosion resistance. They are available in a wide range of consistent, stable colors and are extremely inert, providing long-term durability as well as resistance to chemical attack and surface

damage caused by acid rain, salt spray, and humidity encountered under aggressive environmental conditions. Because the system requires only one pass through a tandem coil coating line, it provides an economical alternative for buildings facing more aggressive environments. DURANAR PLUS coil coatings require minimal maintenance and minor scratches can be easily repaired in the field.

COMMERCIAL USES

DURANAR PLUS coil coatings are formulated to provide enhanced performance against weathering in aggressive environments such as industrial and seacoast areas where added protection against chemical and salt spray

corrosion is required. The DURANAR PLUS two-coat, thick-film system is an excellent choice for architectural applications such as storefronts, building panels, curtainwalls, and roof panels.

DURABILITY

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

used on DURANAR PLUS coated surfaces.) All pigments are tested for a minimum of ten years in south Florida prior to approval for use in any DURANAR PLUS coil coating system. Additionally, DURANAR PLUS coil 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 PLUS SPECIFICATIONS		
	Aluminum Substrate	Coated Steel ¹ Substrate
Dry Film Thickness (nominal) ASTM D1400	0.80 mil primer 0.80 mil topcoat	0.80 mil primer 0.80 mil topcoat
Gloss ASTM D523 Standard @ 60° DURANAR LG @ 85°	25 - 35 <10	25 - 35 <10
Pencil Hardness ASTM D3363	HB - H	HB - H
Flexibility² T-bend, ASTM D4145	0 T-bend; No pick-off	0 T-bend; No pick-off
Adhesion ASTM D3359 Reverse impact 1/16" crosshatch	No adhesion loss	No adhesion loss
Reverse Impact ASTM D2794 1500 x metal thickness (aluminum) 3000 x metal thickness (coated steel)	No cracking or adhesion loss No cracking or adhesion loss	No cracking or adhesion loss No cracking or adhesion loss
Acid Resistance ASTM D1308 10% muriatic acid — 24 hrs. 20% sulfuric acid — 18 hrs.	No effect No effect	No effect No effect
Acid Rain Test Kesternich SO ₂ , DIN 50018	15 cycles min. No objectionable color change	15 cycles min. No objectionable color change
Alkali Resistance ASTM D1308 10%, 25% NaOH, 1 hr.	No effect	No effect
Salt Spray Resistance ASTM B117 5% salt fog @ 95°F	Passes 4000 hrs. Less than 1/16" avg. creepage from scribe; None or few #8 blisters	Passes 1000 hrs. Less than 1/8" avg. creepage from scribe; None or few #8 blisters
Humidity Resistance ASTM D714, ASTM D2247 100% relative humidity @ 95°F	Passes 4000 hrs. No #8 blisters	Passes 1500 hrs. No #8 blisters
Exterior Exposure 10 yrs. @ 45°, south Florida ASTM D2244 ASTM D4214	Max. 5 fade Max. 8 chalk	Max. 5 fade 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 PLUS coatings are generally flexible beyond the point of substrate rupture.

DURANAR PLUS WARRANTY INFORMATION

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

