PPG Coil Coatings

DURANAR® COATINGS PRODUCT DATA

PRODUCT DESCRIPTION

DURANAR fluoropolymer coil coatings are designed to provide outstanding aesthetics and durability in a wide range of architectural uses under normal environmental conditions. More than 20 years of field use have proven them to be the standard of excellence in architectural fluoropolymer finishes. DURANAR coil coatings combine PPG proprietary resin and pigment technologies with 70% of the resin system being fluoropolymer base resins. The coatings are highly resistant to chalking, fading, chipping, and peeling when properly applied by an approved applicator. DURANAR coil coatings exceed the requirements of AAMA 2605 specifications, and are approved for use on properly cleaned and treated aluminum and coated steel substrates such as G90 hot dip galvanized, Galfan®, Galvalume®, and Zincalume®*. 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 coil coating formulations, is also available for use where non-glare 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 coil coatings are offered.

SYSTEM OVERVIEW

DURANAR coatings are two-coat systems consisting of a nominal 0.2 mil corrosion inhibitive primer and a 0.75 mil fluoropolymer topcoat. 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 normal environmental conditions. DURANAR coil coatings require minimal maintenance and minor scratches can be easily repaired in the field.

COMMERCIAL USES

DURANAR coil coatings are formulated to provide excellent performance against weathering in all environments. (Where added protection against industrial or seacoast influences is required, DURANAR PLUS, DURANAR XL PLUS, or DURANAR XLE are recommended.) The DURANAR two-coat system is an excellent choice for architectural applications such as storefronts, building panels, curtainwalls, and roof panels.

DURABILITY

DURANAR 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 or solvents must not be used on DURANAR coated surfaces.) All pigments are tested for a minimum of ten years in south Florida prior to approval for use in any DURANAR coil coating system. Additionally, DURANAR 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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DURANAR SPECIFICATIONS		
	Aluminum[1] Substrate	**Coated Steel[2] 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		
Standard @ 60°	25 - 35	25 - 35
DURANAR LG @ 85°	<10	<10
Pencil Hardness		
ASTM D3363	HB - H	HB - H
Flexibility[3]		
T-bend, ASTM D4145	1 T-bend; No pick-off	2 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)	No cracking or adhesion loss	No cracking or adhesion loss
3000 x metal thickness (coated steel)	No cracking or adhesion loss	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 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	Max. 5 fade	Max. 5 fade
ASTM D4214	Max. 8 chalk	Max. 8 chalk

[1] DURANAR coatings on aluminum meet or exceed the above stated performance requirements of AAMA 2605.

[2] Coated Steel includes the following types of steel: G90 hot dip galvanized, Galfan, Galvalume, and Zincalume.

[3] Fracturing or rupturing of substrate will rupture coatings. Heavy gauge and clad steel substrates impose limitations on formability. DURANAR coatings are generally flexible beyond the point of substrate rupture.

DURANAR WARRANTY INFORMATION

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

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