

PRIMERON® Optimal Powder Coat

Ероху

PCMT70149 - High Transfer Zinc Primer

POWDER COATING

Technical Data Sheet

Highlights

PPG's Primeron powder coatings are durable primers with exceptional corrosion protection for a variety of market segments.

PPG's "World Class" Primer Powder Coatings provide a combination of good physical and chemical resistance properties. This specialized line of zincrich epoxy, epoxy, and epoxy-polyester primers are manufactured to meet the increasing requirement demands of the automotive and industrial markets. These sophisticated products are the solution to your corrosion, durability, and physical property requirements. An unsurpassed application development program enables consistently friendly use on a variety of substrates.

- Available in a wide range of colors and alosses
- Excellent edge and face corrosion properties
- · Good chemical resistance
- Low cure capabilities

PRODUCT CHARACTERISTICS

Designed to help with acceptance of electrostatically applied topcoat.

Up to 70% better theoretical coverage than traditional zinc rich primers.

Compliant to ISO 12944-6 C5-High requirements over 2-3 mil blasted hot rolled steel and top coated with an appropriate polyester or fluoropolymer powder coating.

TEST CONDITIONS

Property	Test method	Value
Substrate		Pretreated steel panels
Recommended Thickness	ASTM D 7091	2.0 - 3.0 mils
Curing Conditions	Metal Temperature	10 min @ 300 °F

^{*10,000} hours Salt Spray over 2-3 mils blasted HRS panels. 4000 hours Salt Spray over iron phosphate smooth steel.

PRODUCT PROPERTIES

Property	Test method	Value
Appearance	Visual Inspection	Smooth
Gloss 60°	ASTM D 523	60 Minimum
Adhesion	ASTM D 3359	100% (5B Pass)
Hardness	ASTM D 3363	2H Pencil (Eagle)
Impact - Direct	ASTM D 2794	160 in-lbs - No flaking
Conical Mandrel	ASTM D 522	1/8" Mandrel - No flaking
Salt spray	ASTM B 117	4000 hrs
Humidity	ASTM D 4585 @ 38° C	100 °F, 100% RH - 1000+ hrs
Specific gravity	Calculated	2 ± .05
Theoretical coverage	Calculated	96 ft²/lbs at 1.0 mil
		$19.7~m^2/kg$ at $25~\mu m$



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CURING WINDOW* (object temperature)

See Cure Curve PCM-010

20 min @ 275 °F (135 °C) 10 min @ 300 °F (149 °C) 5 min @ 350 °F (177 °C)

*Temperature and time to be adjusted to accomplish proper curing of coating. This can be achieved using infrared, convection, or combination ovens.

STORAGE STABILITY

12 months at 77 °F maximum

Materials need to be stored in sealed plastic bags under dry and cool conditions. Do not expose to sunlight.

PPG recommends that all material be used in FIFO order (first in - first out). Materials that exceed the recommended shelf life should be tested prior to use.

SUBSTRATE PREPARATION

Surface preparation should be chosen according to the type of substrate and required performance.

The coater should test the suitability of the surface preparation before the application using appropriate test methods.

For steel with mill scale, chemically clean or abrasive blast. Chemically clean using an acid descale stage after alkaline cleaning and rinsing before pretreatment. The acid choice would depend on the severity of the scale to be removed. Time and temperature would also depend on the acid choice and the scale to be removed. Abrasive blast to ISO- Sa2½ or minimum SSPC SP-6, power tool clean to ISO-St3 (SSPC SP-3), or hand tool clean to ISO-St2 (SSPC SP-2).

For cold rolled steel, a suitable multi-stage chemical conversion is needed.

APPLICATION RECOMMENDATIONS

Electrostatic Spray

Coating can be applied with automatic and manual devices.

Substrate should be correctly cleaned before use.

Do not mix this product with other powder coatings.

Color and finish influenced by film thickness: a good control of the film thickness will help the consistency of the aspect.

It is recommended to partially cure or gel the primer if it will be overcoated with a topcoat and fully baked. 30-50% cure of primer is recommended to maximize intercoat adheasion.

HEALTH AND SAFETY

For comprehensive Health, Safety, and Environmental advice, please refer to the relevant Safety Data Sheets, and information printed on the product label.

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