



Zinc-rich primer for corrosion protection



Zinc-rich primer

PPG Primeron® Zinc primer is a zinc-rich epoxy powder primer designed to provide enhanced corrosion protection for mild steel, hot-dip galvanized steel and aluminum substrates.

Unlike conventional coatings which form a barrier between the substrate and the environment, Primeron Zinc offers added protection through its zinc content. The zinc serves as a sacrificial metal by reacting to corrosive elements, protecting the substrate. Primeron Zinc is especially recommended on mechanically pretreated steel, e.g. blasted steel and it meets ISO 12944 C4 designation.

Suggested industries

- Energy applications
- General industrial
- Automotive parts and accessories

Suggested end uses

- Gas or liquid tanks and pipelines
- Seacoast walls, fences or metal objects

ISO 12944 Corrosivity Category

C4

The PPG Benefit



ISO 12944 C4 primer for corrosion resistance



Very good flow and appearance



Low bake capability



Reclaimable and resprayable for less waste than liquid coatings



PPG Primeron[®] Zinc



Properties	Test Method	Value
Color	-	Dark gray
Surface	-	Semi-gloss, smooth
Gloss at 60°	ISO 2813	60-80
Specific Gravity	Calculated	2.94 g/cm ³
Impact Resistance	ISO 6272 / ASTM D2794	40 in./lbs. direct 20 in./lbs. reverse
Adhesion	ISO 2409	GTO, pass
Conical Mandrel	ISO 6860	0-10 mm, pass

Partial Curing	
7 - 10 minutes	130° C (266° F)
5 - 7 minutes	140° C (284° F)
3 - 5 minutes	150° C (302° F)

Full Curing	
25 - 30 minutes	140° C (284° F)
20 - 25 minutes	150° C (302° F)
15 - 20 minutes	160° C (320° F)

Storage Conditions
12 months / 30° C (86° F)

Corrosion performance

Test	Test Method	Substrate	Scribe Corrosion	Surface Defects
NSS (Neutral Salt Spray Test) - 720 h	ISO 9227	Steel pretreated (1)	< 1 mm	No blisters, no rust
		Blasted steel (2)	< 1 mm	No blisters, no rust
CCT (Cyclic Corrosion Testing) - 1680 h	-	Steel pretreated (1)	< 1 mm	No blisters, no rust
		Blasted steel (2)	< 1 mm	No blisters, no rust
Humidity Resistance (40°C, 100% RH) - 720 h	-	Steel pretreated (1)	-	No blisters, no rust
		Blasted steel (2)	-	No blisters, no rust

(1): Chemical pretreatment - Alkaline (Iron phosphate) - Chrome free

(2): Blasted steel - Sanding media: Grit blast, Sanding rating: Sa 2 ½, Rugosity: 6<Ra<12 µm, 50 < Rt <75 µm

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