



# Zinc-rich primer for strong corrosion protection



## Zinc 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.

## Benefits

- Good performance and corrosion prevention up to C5 environments
- Very good flow and appearance
- Low cure capabilities
- Zinc-rich formulation





## Performance Comparison

Properties	Test Method	Value
Gloss at 60°	ISO 2813	60-80 gloss units
Specific Gravity	Calculated	2,94 g/cm <sup>3</sup>
Impact Resistance	ISO 6272 / ASTM D2794	40 inch-pound - Direct 20 inch-pound - Reverse
Adhesion	ISO 2409	GTO
Conical Mandrel Bending	ISO 6860	0 - 10 mm

## 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

## Estimated Durability according to ISO 12944 Standard

Pretreatment	Substrate	C2	C3	C4	C5
Chemical	Steel				
Mechanical	Steel				
Chemical	Hot-dip galvanized				
Mechanical	Hot-dip galvanized				

## Curing Conditions

Partial Curing	
7 - 10 min	130°C
5 - 7 min	140°C
3 - 5 min	150°C

Full Curing	
25 - 30 min	140°C
20 - 25 min	150°C
15 - 20 min	160°C

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