



Strong corrosion protection regardless of the pretreatment combined with a balanced feature profile



### Comprehensive protection

Corrosion protection is a decisive factor for the durability of steel and aluminum and one of the most significant challenges for the coating industry. Corrosion protection depends not only on the performance of the coating but also on the substrate and the pretreatment.

PPG PRIMERON® PRO shows strong corrosion protection independent of the pretreatment and very good results, especially on mechanically pretreated steel. Furthermore, *Primeron* PRO has very good mechanical properties and a balanced property profile, making a comprehensive application possible.

### Benefits

- Very good corrosion protection
- High chemical resistance
- Very good flow and appearance
- Good mechanical properties
- Good application stability
- Low consumption
- Formulated without Zinc NIA\*
- Formulated without heavy metals

### Common Areas of Application

- Protection of interior parts
- Gas or liquid tanks
- Pipelines
- Structural steelwork
- Trucks
- Trailers
- Car parts



\*Not intentionally added



## Product Properties

Properties	Test Method	Value
Gloss at 60°	ISO 2813	60-80 gloss units
Specific Gravity	Calculated	1,67 g/cm <sup>3</sup>
Impact Resistance	ISO 6272 / ASTM D2794	20 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	Corrosion from Scribe	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	C2, C3, C4			
Mechanical	Steel	C2, C3, C4			PE-0162, ST2 C4H
Chemical	Hot-dip galvanized	C2, C3, C4, C5			
Mechanical	Hot-dip galvanized	C2, C3, C4, C5			

## Curing Conditions

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

Full Curing	
20 - 25 min	170°C
15 - 20 min	180°C
10 - 15 min	190°C

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