

E29/80290/CS2 ZINCOPRIME is a Zinc-rich thermosetting powder based on epoxy resins and special hardeners. It is used on shotblasted steel as a primer before further coating with an Epoxy or Polyester powder. It gives very good corrosion resistance.

PROPERTIES OF THE POWDER

Melting range (Kofler)	: 66-90°C
Specific gravity (DIN55990/3)	: 2.80 ± 0.05
Particle size distribution (DIN 55990/2, air flow sieve)	
% above 100 microns	: 0
% above 32 microns	: 55-60

POWDER APPLICATION

E29/80290/CS2 ZINCOPRIME can be applied by electrostatic spraying using classic devices which can provide a negative tension of 60-80 Kilovolts, as well as with tribo-guns.

The curing process of the powder will occur in a suitable convection oven.

Curing schedule: 10 minutes at 180°C (metal temperature)

A partial curing (5 mins at 180°C metal temperature) of ZINCOPRIME applied as a primer is recommended to ensure good adhesion of the topcoat.

PROPERTIES OF THE COATING

Substrate	: Shotblasted steel, Sa 2½
Curing schedule	: 10 min. at 180°C metal temperature
Thickness	: 40-50 microns
Gloss (ASTM D-523 60°)	: 65-75%
Flow-out	: Good
Erichsen (DIN 53156)	: 8-10mm
Direct impact (ASTM D-2794)	: > 100kg.cm
Reverse impact (ASTM D-2794)	: > 100kg.cm
Conical mandrel (DIN 53152)	: < 4mm
Adhesion (DIN 53151)	: GT=0

CORROSION TESTS

Substrate	: Steel, shotblasted Sa 2½
E29/80290/CS2 ZINCOPRIME	: 40-50 microns (5min / 180°C)
Topcoat	: OXYPLAST PR12 Polyester Thickness: 60-80 microns Curing schedule: 10 minutes / 200°C
SALT SPRAY (ASTM B-117)	: No blistering
After 500 hours	Peel off at scratch: 2mm
HUMIDITY CABINET (DIN 50017)	: No blistering
After 500 hours	Peel off at scratch: 0 mm

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The Chosen Finish