

ELM EPX16

Technical Data Sheet

ELM EPX16 *Zinc Rich Primer*

ELM EPX16 is anticorrosion primer exclusively formulated based on epoxy resins and Zinc pigment that presents unequalled anticorrosion performance. It has good chemical and corrosion resistance performance.

Characteristics

- Good chemical resistance
- Excellent anticorrosion properties
- Excellent intercoat adhesion with topcoats
- Primed parts can be stored awaiting to be overcoated with topcoat
- Excellent overall performance
- No VOC

Powder specifications

- Particle size < 300 μm
- Average particle size 30-60 μm
- Solids > 99%
- Density 2,50-2,95 gr/cm^3 (Zinc content %15-70)
- Storage stability min 12 months
- Storage Temperature cool and dry at < 25° C

Applications

- Ferrous metal that required anticorrosion protection

Product range

Surface appearance

smooth semigloss

Zinc Content

%70 Zinc for 1D787SG444

ELM EPX16

%15 Zinc for 1D787SG537-1D787SN341

Colors

Mainly grey and dark color

Product performance

To obtain the following data, ELM EPX16 was coated as follows

Degreased steel 0,5 mm
Coating thickness 60-80 µm
Object temperature 180 °C 10 min full cure
180 °C 5 min partial cure

Partial cure of the primer before applying topcoat then followed by full cure of the total paint system.

Test	Method	Result
Impact	ASTM D2794	> 20 kgcm
Ericksen cupping	ISO 1520	> 5 mm
Buchholz hardness	ISO 1015	> 90
Mandrel bending		< 5 mm
Cross-cut adhesion	ISO 2409	GT 0

Condensed water and salt spray test results depend on pre-treatment of metal
> 800 hrs condensed water test DIN 50017; no infiltration, no blisters for zinc fosfate steel
> 800 hrs nautral salt spray test ISO 9227; no infiltration, no blisters for zinc fosfate steel

Application instructions

The substrate to be coated must be free of dirt, oil, rust etc.

For steel metal depending on intended purpose, degreasing, Fe –phosphating or Zinc phosphating

ELM EPX16 can be applied by all commercial electrostatic systems both corona and tribo

Partial Curing Schedule

Object temperature	Retention time at object temperature
170 °C	6 min
180 °C	5 min
190 °C	3 min

DISCLAIMER: All the information given in this technical data sheet is the result of our experience. Application, use and processing of the products take place outside our ability to supervise and therefore exclusively applicator's responsibility. The policy of product development, this specification is subject to change without notice.