

Technical Data Sheet

ELM EPX12 *Indoor quality*

ELM EPX12 is fast curing thermosetting powder coating based on epoxy resins and phenolic hardeners. The EPX12 series phenolic epoxy powders are suitable for thick application of over 100 micron.

Characteristics

- Excellent mechanical properties
- Excellent chemical resistance
- Good general resistance properties
- Low curing
- Resistance to Cathodic Disbondment
- No VOC

Powder specifications

- Particle size < 300 µm
- Average particle size 30-60 µm
- Solids > 99%
- Density 1,3-1,8 gr/cm³
- Storage stability < 6 month
- Storage Temperature < 30 C

Applications

- Functional interior applications
- Laboratory equipments
- Fittings for gas and water
- Machine elements

Product range

Surface appearance

Smooth gloss, Smooth semigloss, wrinkle and texture effect

ELM EPX12



Colors

There are limited colors available

Product performance

To obtain the following data, ELM EPX12 was coated as follows

Degreased steel 0,5 mm
Coating thickness 60-80 µm
Object temperature 150 °C 10 min

Test	Method	Result
Impact	ASTM D2794	> 20 kgcm
Ericksen cupping	ISO 1520	> 5 mm
Buchholz hardness	ISO 2815	> 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
> 400 hrs condensed water test DIN 50017; no infiltration, no blisters for zinc fosfate steel
> 400 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 aluminium depending on intended purpose, degreasing or chromatising

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

ELM EPX12 can be applied by all commercial electrostatic systems both corona and tribo

Curing Schedule

Object temperature	Retention time at object temperature
140 °C	15 min
150 °C	10 min
160 °C	8 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.