

ELM EPX17

Technical Data Sheet

ELM EPX 17 *Indoor quality*

ELM EPX 17 is thermosetting powder coating based on epoxy resins. It has good chemical resistance and It has good flow combined with excellent overall performance.

Characteristics

- Good chemical resistance
- Excellent mechanical properties
- Excellent overall performance
- No VOC

Powder specifications

- Particle size < 300 μm
- Average particle size 30-60 μm
- Solids > 99%
- Density 1,3-1,8 gr/cm^3
- Storage stability min 12 months
- Storage Temperature cool and dry at < 25° C

Applications

- Factory equipment
- Office furniture
- Lighting systems
- Shelving components
- Machine elements
- laboratory materials

Product range

Surface appearance

Smooth gloss, smooth semigloss, matt, wrinkle and texture effect

ELM EPX17

Colors

Mainly RAL, Pantone and NCS shades, special shades on request

Product performance

To obtain the following data, ELM EPX 17 was coated as follows

Degreased steel	0,5 mm
Coating thickness	60-80 µm
Object temperature	160 °C 10 min

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
> 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 EPX 17 can be applied by all commercial electrostatic systems both corona and tribo

Curing Schedule

Object temperature	Retention time at object temperature
150 °C	15 min
160 °C	10 min
170 °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.