

ELM HYB45

Technical Data Sheet

ELM HYB45 *Indoor quality*

ELM HYB45 is matt thermosetting powder coating based on polyester and epoxy resins with high chemical and yellowing resistance.

Characteristics

- Semi-matt and matt surface
- Better chemical and yellowing resistance
- Excellent surface
- 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 min 24 months
- Storage Temperature cool and dry at < 25° C

Applications

- Household appliances (ovens, toasters, etc.)
- Laboratory equipment
- Lighting system
- Office furniture

Product range

Surface appearance

Smooth matt, Smooth semimatt, wrinkle texture effect

Colors

ELM HYB45

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

Product performance

To obtain the following data, ELM HYB45 was coated as follows

Degreased steel	0,5 mm
Coating thickness	60-80 µm
Object temperature	200 °C 10 min

Test	Method	Result
Impact	ASTM D2794	> 20 kgcm
Erichsen 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
> 1000 hrs nautral salt spray test ISO 9227; no infiltration, no blisters for chromated aluminium

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 HYB45 can be applied by all commercial electrostatic systems both corona and tribo

Curing Schedule

Object temperature	Retention time at object temperature
190 °C	15 min
200 °C	10 min
210 °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.