

Technical Data Sheet

ELM HYB 29 *Indoor quality*

ELM HYB 29 is thermosetting powder coating based on polyester and epoxy resins. It has good yellowing resistance combined with excellent overall performance.

Characteristics

- 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/cm³
- Storage stability min 24 months (min 12 months for metallic color)
- Storage Temperature cool and dry at < 25° C

Applications

- Factory equipment
- Office furniture
- Ceiling panels
- Household appliances
- Radiators
- Lighting systems
- Shelving components
- Machine elements

Product range

Surface appearance

ELM HYB 29

Smooth gloss, Smooth semigloss, Smooth semimatt, wrinkle and texture effect

Colors

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

Product performance

To obtain the following data, ELM HYB 29 was coated as follows

| | |
|--------------------|---------------|
| Degreased steel | 0,5 mm |
| Coating thickness | 60-80 µm |
| Object temperature | 190 °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 HYB 29 can be applied by all commercial electrostatic systems both corona and tribo

Curing Schedule

| Object temperature | Retention time at object temperature |
|--------------------|--------------------------------------|
| 180 °C | 15 min |
| 190 °C | 10 min |
| 200 °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.