

# Technical Data Sheet

## **ELM HYB 20** *Indoor quality*

ELM HYB 20 is matt thermosetting powder coating based on polyester and epoxy resins. It has excellent flow combined with good overall performance

### **Characteristics**

- Matt surface
- Excellent flow
- Good general resistance properties
- No VOC

### **Powder specifications**

- Particle size < 300 µm
- Average particle size 30-60 µm
- Solids > 99%
- Density 1,3-1,8 gr/cm<sup>3</sup>
- Storage stability min 24 months
- Storage Temperature cool and dry at < 25° C

### **Applications**

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

### **Product range**

Surface appearance

Smooth semimatt, Smooth matt, wrinkle effect

## ELM HYB 20

### Colors

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

### Product performance

To obtain the following data, ELM HYB 20 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
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  
> 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 20 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.