

Technical Data Sheet

ELM SIL70 *Outdoor quality*

ELM SIL 70 series; they are silicone resin based thermoset powder paints that are resistant to high temperatures, protective against corrosion and environmentally friendly. It has a maximum temperature resistance of 400°C and a long-lasting temperature of 300°C.

Characteristics

- High temperature resistance (up to 400 °C)
- Very good outdoor resistance
- Very good chemical resistance
- No VOCs

Powder specifications

- Particle size < 300 µm
- Average particle size 30-60 µm
- Solids > 99%
- Density 1,3-1,7 gr/cm³
- Storage stability min 6 months
- Storage Temperature cool and dry at < 25° C

Applications

- Heating equipments
- External surface of cooking equipments

Product range

Surface appearance

Texture surfaces

Colors

Limited color options

ELM SIL70



Product performance

To obtain the following data, ELM SIL 70 was coated as follows

Degreased steel 0,5 mm
Coating thickness 40-60 µm
Object temperature 230 °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

A The surface to be painted must be free of dirt such as oil, rust and dust.Consult your supplier for high temperature resistant surface treatment chemicals on aluminum and steel-metal surfaces.It can be used in ELM SIL 70 series corona systems.pplication instructions

Curing Schedule

Object temperature	Retention time at object temperature
220 °C	20 min
230 °C	10 min
240 °C	8 min

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