

## ELM PLI37

# Technical Data Sheet

## ELM PLI37 *Outdoor quality*

ELM PLI37 is thermosetting powder coating with TGIC free based on saturated polyester resin base, the corresponding hardener plus special heat, light and chalk resistant pigments. Thanks to special resin technology they have very good outdoor quality and flow. It has good yellowing resistance combined with excellent overall performance.

### Characteristics

- TGIC free
- Very good weather and light resistance
- Excellent mechanical properties
- Good general resistance properties
- No VOC

### Powder specifications

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

### Applications

- Facade elements, window profiles
- Doors
- Agricultural machines
- Garden and Camping furniture
- Lights
- Office furniture
- Bicycle frames

### Product range

## ELM PLI37

Surface appearance

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 PLI37 was coated as follows

Degreased steel 0,5 mm  
Coating thickness 70-100 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

### 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 PLI37 can be applied by all commercial electrostatic systems both corona.

### 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.