

## ELM ZINC UC

# Technical Data Sheet

## ELM ZINC UC UnderCoat *Primer*

ELM ZINC UC is thermosetting powder coating based on zinc pigment and epoxy resins. The application of Element Zinc UC primer on ferrous substrates is a very efficient method of anticorrosion protection. It provides galvanic protection and repairs damages in a coating forming a barrier to further electrochemical action.

### Characteristics

- Provides galvanic protection
- Anticorrosion protection
- Barrier effect
- No VOC

### Powder specifications

- Particle size < 300  $\mu\text{m}$
- Average particle size 30-60  $\mu\text{m}$
- Solids > 99%
- Density 2,6-3,0  $\text{gr}/\text{cm}^3$
- Storage stability min 6 months
- Storage Temperature cool and dry at < 25° C

### Applications

- Street and garden furniture
- Storage cylinders and tanks
- Valves

### Product range

Surface appearance

Smooth semigloss

Colors

Mainly grey color

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### Product performance

To obtain the following data, ELM ZINC UC was coated as follows

Blast cleaning SA 2,5 steel 0,5 mm  
Coating thickness 40-60 µm  
Object temperature 180 °C 10 min

Test	Method	Result
Impact	ASTM D2794	> 20 kgcm
Erichsen cupping	ISO 1520	> 5 mm
Buchholz hardness	ISO 1015	> 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  
> 1000 hrs condensed water test DIN 50017; no infiltration, no blisters  
> 1000 hrs neutral salt spray test ISO 9227; no infiltration, no blisters

### Application instructions

The substrate to be coated must be free of dirt, oil, rust etc.

For ferrous metal depending on intended purpose, Fe –phosphating, blast cleaning (SA 2,5), Zinc phosphating

ELM ZINC UC can be applied by all commercial corona electrostatic systems

### Curing Schedule

Object temperature	Retention time at object temperature
170 °C	15 min
180 °C	10 min
190 °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.