



## BASE: EPOXY RESIN

# CEWEPOX

CEWEPOX powder coatings are based on high-quality epoxy resins that react with specialized crosslinking systems under appropriate stoving conditions. These products are distinguished by their excellent chemical resistance. Depending on the specific requirements, the following stoving conditions are possible: 10 minutes at 120°C to 10 minutes at 180°C (object temperature). These powder coatings are suitable for both thin and thick film applications.

- Excellent chemical resistance (to be verified depending on the application)
- Outstanding corrosion protection
- Good mechanical properties
- Very high surface hardness
- Easy and safe application

### FIELDS OF APPLICATION

- Primer for heavy-duty corrosion protection
- Pipe coatings
- Valves and fittings
- Cooling systems
- Electrical insulation
- Crankshaft housings
- Automotive accessories
- Springs
- Steel structures

### PRODUCT RANGE

- Products can be tailored to specific customer needs
- Numerous color shades are available

### APPLICATION

- Electrostatic powder coating, corona and tribo\*\*

\*\* tribo modified powdercoatings belong to a special product group. All previous information meets the current state of the art. The information is based on both practical experience and thorough testing. These recommendations and suggestions herein are made without guarantee as to the results. The suitability of the product for an intended use shall be solely up to the user.

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### GLOSS AND SURFACE

| Surface       | Gloss according ISO 2813, reflected at 60° angle |                  |                   |                        |                    |                       |
|---------------|--------------------------------------------------|------------------|-------------------|------------------------|--------------------|-----------------------|
|               | deep flat<br>(0-9°)                              | flat<br>(10-29°) | satin<br>(30-49°) | semi-gloss<br>(50-79°) | glossy<br>(80-95°) | high-gloss<br>(> 95°) |
| Smooth        | ■                                                | ■                | ■                 | ■                      | ■                  | ■                     |
| River Texture | —                                                | ■                | ■                 | ■                      | ■                  | —                     |
| Fine texture  | ■                                                | ■                | —                 | —                      | —                  | —                     |

### PRETREATMENT

- Substrate must be free of scale, dirt and oil, for example through an alkaline degreasing process
- Blasting
- Sweeping
- Iron phosphating
- Chrome free conversion systems such as titanium or zirconium based compounds that build nano ceramic conversion layers
- Zinc phosphate
- Chromate

Depending on the substrate and the application purpose one of the above mentioned pretreatments will be suitable.

### TECHNICAL DATA

The following properties have been achieved on zinc phosphated steel panels, 0,75mm, Gardobond 26T/60/OC:

|                                                           | Standard, glossy                       | Standard, flat                         |
|-----------------------------------------------------------|----------------------------------------|----------------------------------------|
| <b>Film thickness</b><br>ISO 2360                         | (70 ± 10) µm                           | (70 ± 10) µm                           |
| <b>Reflection value</b><br>Reflection angle 60°, ISO 2813 | 80 – 95<br>(glossy)                    | 10 – 29<br>(flat)                      |
| <b>Crosscut</b><br>ISO 2409, multi-cross cutter, 2 mm     | Characteristic 0                       | Characteristic 0                       |
| <b>Film hardness</b><br>according Buchholz, ISO 2815      | > 90                                   | > 90                                   |
| <b>Mandrel</b><br>ISO 1519                                | ≤ 8 mm                                 | ≤ 20 mm                                |
| <b>Cupping test</b><br>ISO 1520                           | ≥ 8 mm                                 | ≥ 2 mm                                 |
| <b>Salt spray test</b><br>ISO 9227                        | 1000 hours<br>Creepage at cut<br>≤ 1mm | 1000 hours<br>Creepage at cut<br>≤ 1mm |
| <b>Condense water test</b><br>according ISO 6270-2        | 1000 hours<br>Creepage at cut<br>≤ 1mm | 1000 hours<br>Creepage at cut<br>≤ 1mm |

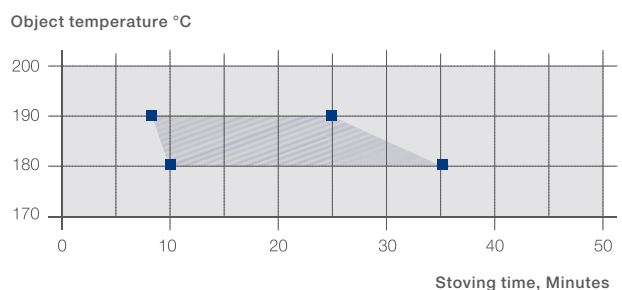
\* reflected at 60° angle

### SUBSTRATES

- Steel, alloyed steel. Stainless steel should be chemically or mechanically etched (adhesion has to be checked)
- Galvanized steel, aluminum and aluminum alloy (adhesion needs to be checked)
- Other metal substrates
- Ceramic / glass

### STOVING CURVE

Stoving Conditions (190°C-Version)



### SPECIFIC GRAVITY (ISO 8130-2)

1,2-1,7g/cm<sup>3</sup> depending on quality and colour

### PACKAGING

- 20kg carton (18kg on a pallet)
- Welltainer (20 kg plastic bags: 340-500kg)
- Super Bag (350 - 700kg)
- Tote (450 – 750 kg)

### POWDER CONSUMPTION

$$\text{Material price €/m}^2 = \frac{\text{price €/kg} \times \text{spec.gravity g/cm}^3 \times \text{film thickness in } \mu\text{m}}{1000}$$

### STORAGE STABILITY

At least 12 months when stored dry and cool at max. 25°C