



BASE: URETHANE RESIN

CEWEPUR

CEWEPUR powder coatings are based on high quality urethane resins that, stoved appropriately, will react with a variety of special crosslinking systems. The products are characterized by excellent resistance against chemical substances as well as by their good weatherdurability. Depending on requirements the following stoving conditions are possible: 10 min. / 190°C – 10min. / 200°C (object temperature).

- Excellent chemical resistance
- Excellent corrosion protection
- Excellent mechanical properties
- Excellent flow
- High surface hardness
- Good weatherdurability
- Simple and secure processing

FIELDS OF APPLICATION

- Recommended for **indoor and outdoor** purpose
- Parts for logistic constructions, cash dispensers, cooling systems, circuit board coating, coilcoating etc.
- An antigraffiti version is available

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 (0-9°)	flat (10-29°)	satin (30-49°)	semi-gloss (50-79°)	glossy (80-95°)	high-gloss (> 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	Antigraffiti
Film thickness ISO 2360	(70 ± 10) µm	(70 ± 10) µm
Reflection value Reflection angle 60°, ISO 2813	80 – 95 (glossy)	80 – 95 (glossy)
Crosscut ISO 2409, multi-cross cutter, 2 mm	Characteristic 0	Characteristic 0
Film hardness according Buchholz, ISO 2815	> 90	> 90
Mandrel ISO 1519	≤ 5 mm	≤ 20 mm
Cupping test ISO 1520	≥ 8 mm	≥ 2 mm
Salt spray test ISO 9227	1000 hours Creepage at cut ≤ 1mm	1000 hours Creepage at cut ≤ 1mm
Condense water test according ISO 6270-2	1000 hours Creepage at cut ≤ 1mm	1000 hours Creepage at cut ≤ 1mm
QUV-B weathering according ISO 11507	[300 hours] Gloss retention: >50%	[300 hours] Gloss retention: >50%

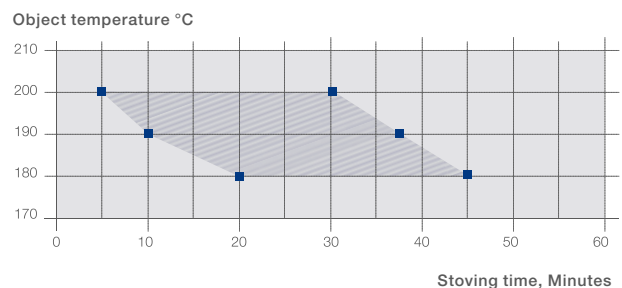
* reflected at 60° angle

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/cm³ 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