TECHNICAL INFORMATION

CEWEPUR

BASE: URETHANE RESIN

BASICS

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).

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

PROPERTIES

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

RANGE OF PRODUCTS

- Depending on customer needs specific products can be developed
- On customers demand many color shades can be formulated

GLOSS AND SURFACE

The following gloss and surface varieties exist

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	■	■	–	–	–	–

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

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 one of the above mentioned pretreatments will be suitable.

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CEWEPUR

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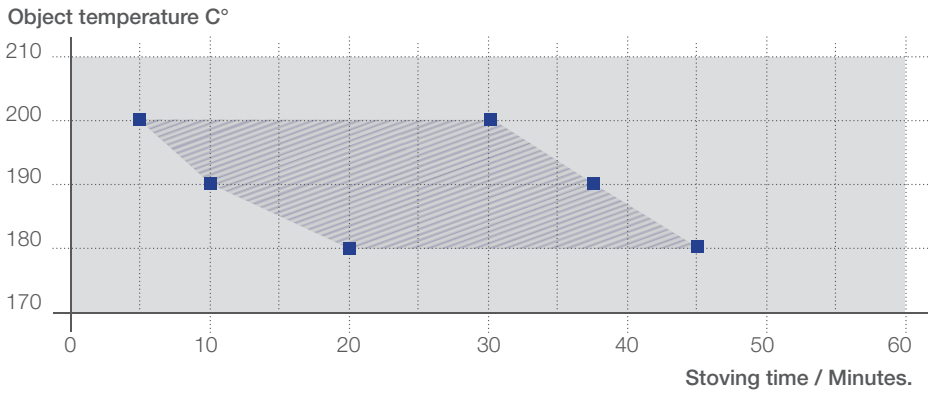
APPLICATION

Electrostatic powder coating, corona and tribo**

STOVING CURVE

Stoving Conditions
(190°C-Version)



TECHNICAL DATAS

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

	Standard, glossy	Antigraffity
Filmthickness 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
Cupping test ISO 1520	≥ 8 mm	≥ 2 mm
Mandrel ISO 1519	≤ 5 mm	≤ 20 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%

SPECIFIC GRAVITY (ISO 8130-2)

1, 2 – 1,7g/cm³ depending on quality and color

PACKAGING

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

POWDER CONSUMPTION

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

STORAGE STABILITY

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

* reflected at 60° angle
** tribo modified powdercoatings belong to a special product group.

Date: 10/2011