TECHNICAL INFORMATION

CEWEPROTECT

BASE: POLYESTER RESIN

BASICS

CEWEPROTECT powder coatings are a further development of our product line CEWEPOL WB and are based on high quality polyester resin systems that, stoved appropriately, will harden during chemical crosslinking. The products are characterized in particular by their outstanding UV, weather and corrosion resistance properties. This is in combination with excellent mechanical perfomance. The stoving conditions vary from >10 Min/170°C to 10 Min /180°C. (Objecttemperature)

FIELDS OF APPLICATION

Suitable for in- and outdoor purpose such as:

- Agricultural machinery, lawnmowers, garden tools, utility vehicles, steel construction, camping articles, sport equipment, etc.

PROPERTIES

- Excellent corrosion resistance also on iron phosphated substrates
- Very good mechanical properties
- High surface hardness
- Good stability against UV-light
- Energy saving stoving conditions

RANGE OF PRODUCTS

- Depending on customer needs specific products can be developed
- Numerous color shades are available

GLOSS AND SURFACE

The following gloss and surface varieties exist:

Surface	Gloss according ISO 2813, angle of reflectance: 60°					
	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 and the application purpose one of the above mentioned pretreatments will be suitable.

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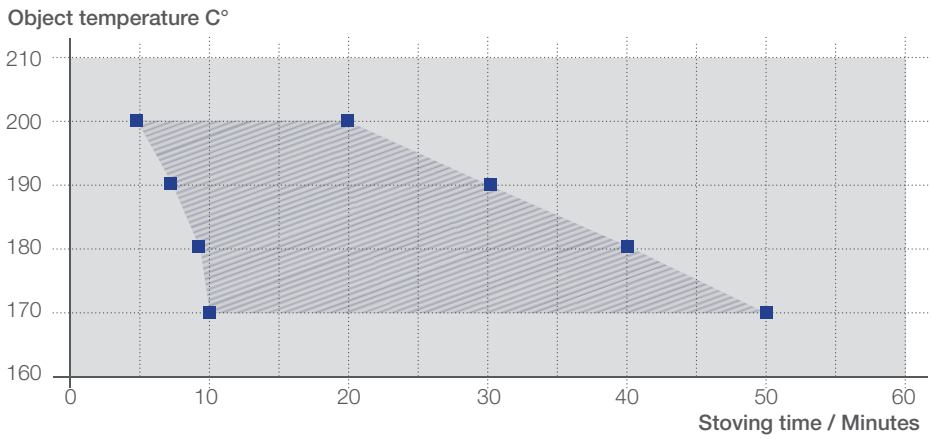
APPLICATION

Electrostatic powder coating, corona and tribo**

STOVING CURVE

Stoving conditions (180°C-Versions)



TECHNICAL DATAS

The following properties have been achieved on iron phosphated steel panels, 0,75mm, Gardobond WH/W/OC:

	Standard glossy
Film thickness ISO 2360	(70 ± 10) µm
Reflection value Reflection angle 60°, ISO 2813	80 – 95 (glossy)
Crosscut ISO 2409, Multi-Cross Cutter, 2 mm	Characteristic 0
Film hardness ISO 2815 according Buchholz	> 90
Cupping test ISO 1520	≥ 8 mm
Impact resistance ISO 6272	≥ 100 cm * 1 kg
Mandrel ISO 1519	≤ 6 mm
Salt spray test ISO 9227	1.000 hours Creepage at cut ≤ 5mm
Condense water test QUV-B 313 Test according to ISO 11507	[300 hours] Gloss retention: >50%

SPECIFIC GRAVITY (ISO 8130-2)

varies from 1,2-1,7g/cm³ depending on quality and color

PACKAGING

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

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