



TECHNICAL INFORMATION



# CEWEPOL WB

BASE: POLYESTER RESIN

## BASICS

CEWEPOL WB powder coatings are based on high quality polyester resin systems that, stoved appropriately, will harden during chemical crosslinking. The products are characterized in particular by their UV and weather resistance properties. Depending on requirements the following products are available:

- 1.) A weather resistant standard with the following stoving ranges:  
10 Minutes at 160°C - 10 Minutes at 180°C object temperature.
- 2.) A superdurable system with outstanding weathering properties has to be stoved 10 Minutes at 180°C object temperature.
- 3.) A superdurable NT with excellent weather resistance can be stoved 10 Minutes at 160°C object temperature

## FIELDS OF APPLICATION

Suitable for in- and outdoor purpose such as:

- agricultural machinery, lawnmowers, garage doors, steel construction, electro boxes, wires, airconditioning, house appliances, lightening, playtools, camping equipment, etc.

## PROPERTIES

- High gloss- and color stability
- Good corrosion resistance
- Good up to excellent mechanical properties
- High surface hardness
- Good chemical resistance
- No yellowing when stoved properly
- Simple and secure processing

## 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

## APPLICATION

Electrostatic powder coating, corona and tribo\*\*



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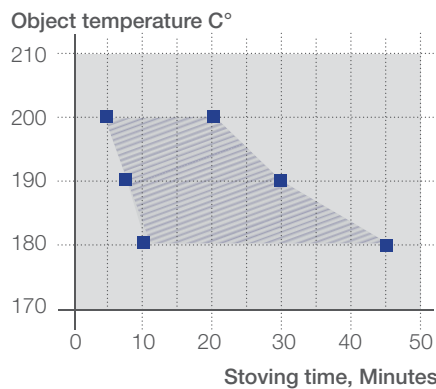
## PRETREATMENT

- 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
- Chromate
- Zinc phosphate

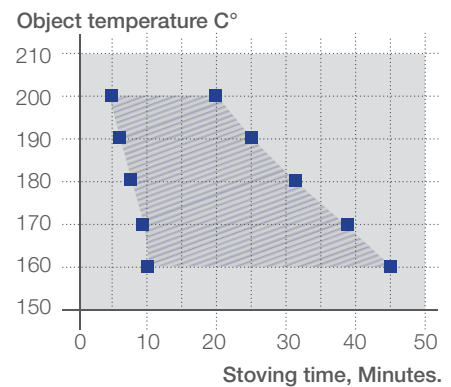
Depending on the substrate one of the above mentioned pretreatments will be suitable.

## STOVING CURVE

### SUPERDURABLE AND STANDARD



### SUPERDURABLE NT



## TECHNICAL DATAS

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

	Standard	Superdurable and Superdurable (NT)
<b>Film thickness</b> ISO 2360	(70 ± 10) µm	(70 ± 10) µm
<b>Reflection value</b> Reflection angle 60°, ISO 2813	80 – 95 (glossy)	80 – 95 (glossy)
<b>Crosscut</b> ISO 2409, Multi-Cross Cutter, 2 mm	Characteristic 0	Characteristic 0
<b>Film hardness</b> ISO 2815 (according Buchholz)	> 90	> 90
<b>Cupping test</b> ISO 1520	≥ 6 mm	≥ 3 mm
<b>Mandrel</b> ISO 1519	≤ 8 mm	≤ 20 mm
<b>Salt spray test</b> ISO 9227	1000 hours Creepage at cut ≤ 1mm	1000 hours Creepage at cut ≤ 1mm
<b>Condense water test according</b> ISO 6270-2	1000 hours Creepage at cut ≤ 1mm	1000 hours Creepage at cut ≤ 1mm
<b>Accelerated weathering</b> Accord- ing ISO 11507 QUV-B 313 Test	[200 hours] Gloss retention: >50%	[600 hours] Gloss retention: >50%

## SPECIFIC GRAVITY (ISO 8130-2)

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

## 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.

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.