



## CEWEPOL WB ARCHITECTURE

BASE: POLYESTER RESIN

### BASICS

CEWEPOL WB Architecture 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. CEWEPOL WB Architecture has been approved by GSB standard, admission number 149a, category 3 class 1 admission P-0451.

### FIELDS OF APPLICATION

Suitable for in- and outdoor purpose such as:

- Window frames, doors, facade elements of all kinds
- Steel construction
- Car- and truck components
- Farming equipment

### PROPERTIES

- Very good weather resistance
- High gloss- and color stability
- Good corrosion resistance
- Excellent mechanical properties
- High surface hardness
- Good chemical resistance
- No yellowing when stoved properly
- Constant RAL-color values better than the VDL-guideline no. 10
- 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:

Smooth, glossy (Gloss 80-95 according ISO 2813, Reflection angle 60° )

### SUBSTRATES

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

### 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.



# CEWEPOL WB ARCHITECTURE

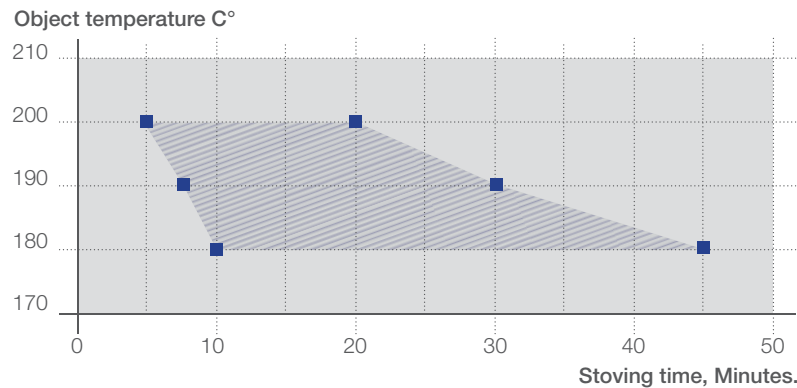
BASE: POLYESTER RESIN

## APPLICATION

Electrostatic powder coating, corona and tribo\*\*

## STOVING CURVE

Stoving conditions  
10 Minutes at 180°C  
Object temperature



## TECHNICAL DATAS

The following properties have been achieved on 0,75mm chromated aluminium-panels Gardobond F/722/WO

	Standard glossy
<b>Film thickness</b> ISO 2360	(70 ± 10) µm
<b>Reflection value</b> Reflection angle 60°, ISO 2813	80 – 95 (glossy)
<b>Crosscut</b> ISO 2409, Multi-Cross Cutter, 2 mm	Characteristic 0
<b>Film hardness</b> according according Buchholz, ISO 2815	> 90
<b>Mandrel</b> ISO 1519	≤ 3 mm
<b>Cupping test</b> ISO 1520	≥ 5 mm
<b>Impact resistance</b> ASTM D2794, 20 inch* pound	No cracking, no lost of adhesion
<b>Mortar resistance</b> ASTM D 3260	passed
<b>Drilling and mortise behaviour</b>	passed, no clipping
<b>Salt spray test</b> ISO 9227	1000 hours (Creepage at cut ≤ 1mm)
<b>Condense water test</b> according ISO 6270-2	1000 hours (Creepage at cut ≤ 1mm)
<b>Kesternichtest</b> ISO 3231 30 Zyklen, 0,2l SO2	passed
<b>Shorttimeweathering</b> QUV-B 313 Test according ISO 507	[300 hours] Gloss retention:>50%
<b>Adhesion of sealing compounds</b>	good
<b>Florida weathering</b> 12 month max. 300MJ/m²	passed (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)
- Welltainer (20 kg-Plastic bags: 340-500kg)
- Super Bag (350 – 700 kg)
- Tote (450 – 750 kg)

## POWDER CONSUMPTION:

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

## STORAGE STABILITY

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

\* 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.