BASE: POLYESTER RESIN

CEWEPOL WB ARCHITECTURE

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:

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

PRODUCT RANGE

- Products can be tailored to specific customer needs
- Numerous colour shades are available

- 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

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.

KANSAI HELIOS

CEWEPOL WB

ARCHITECTURE
BASE: POLYESTER RESIN

GLOSS AND SURFACE

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

SUBSTRATE

- 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 mentioned pretreatments will be suitable.

SPECIFIC GRAVITY (ISO 8130-2)

1,2 - 1,7g/cm^3 depending on quality and colour tone

PACKAGING

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

POWDER CONSUMPTION

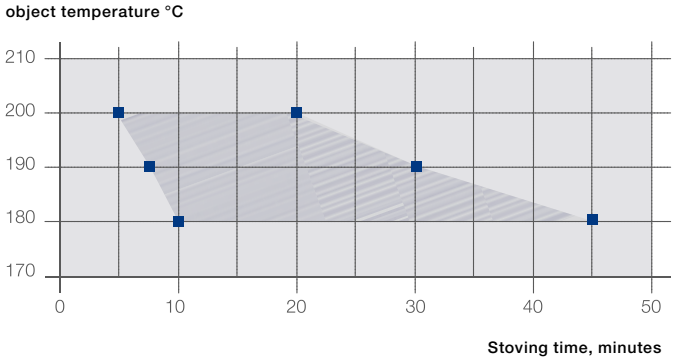
$$\text{Material price per m}^2 = \frac{\text{price per kg x spec.gravity in g/cm3 x film thickness in µm}}{1000}$$

STORAGE STABILITY

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

STOVING CURVE

Stoving conditions 10 Minutes at 180°C object temp.



TECHNICAL DATA

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

	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 according Buchholz, ISO 2815	> 90
Mandrel ISO 1519	≤ 3 mm
Cupping test ISO 1520	≥ 5 mm
Impact resistance ASTM D2794, 20 inch* pound	No cracking, no loss of adhesion
Mortar resistance ASTM D 3260	passed
Drilling and mortise behaviour	passed, no clipping
Salt spray test ISO 9227	1000 hours (Creepage at cut ≤ 1mm)
Condense water test according ISO 6270-2	1000 hours (Creepage at cut ≤ 1mm)
Kesternichtest ISO 3231 30 Zyklen, 0,2l SO2	passed
Shorttimeweathering QUV-B 313 Test according ISO 507	[300 hours] Gloss retention:>50%
Adhesion of sealing compounds	good
Florida weathering 12 month max. 300MJ/m^2	passed Gloss retention: >50%

* reflected at 60° angle

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