BASE: POLYESTER RESIN

CEWEPOL WB

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. Standard, weather-resistant; to be stoved 10 Minutes at 160°C - 10 Minutes at 180°C (object temperature).
2. Superdurable, with outstanding weathering properties, has to be stoved 10 Minutes at 180°C object temperature.
3. Superdurable NT, with excellent weather resistance, can be stoved 10 Minutes at 160°C (object temperature).

- 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

FIELD OF APPLICATION

- 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.

PRODUCT RANGE

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

APPLICATION

- Electrostatic powder coating, corona and tribo**

** tribo modifi ed 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 BASE: POLYESTER RESIN

GLOSS AND SURFACE

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
- Ceramik / 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.

SPECIFIC GRAVITY (ISO 8130-2)

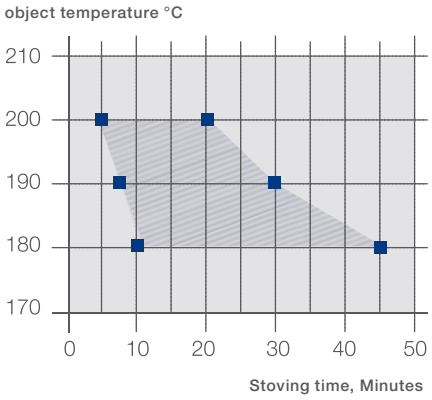
1,2-1,7g/cm3 depending on quality and colour

STORAGE STABILITY

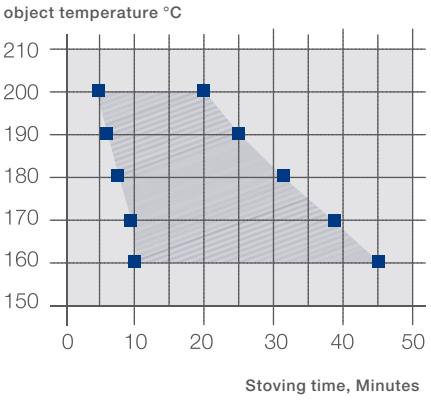
At least 12 months when stored dry and cool at max 25°C

STOVING CURVE

SUPERDURABLE UND STANDARD



SUPERDURABLE NT



TECHNICAL DATA

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

	Standard	Superdurable & Superdurable (NT)
Film thickness 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
Mandrel ISO 1519	≤ 8 mm	≤ 20 mm
Cupping test ISO 1520	≥ 6 mm	≥ 3 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
Accelerated weathering according ISO 11507 QUV-B 313 Test	[200 hours] Gloss retention: >50%	[600 hours] Gloss retention: >50%

* reflected at 60° angle

CWS Powder Coatings GmbH, Katharinenstr. 61, 52353 Düren, Germany
powder@cws.de | www.cws-powder.de | **Member of KANSAI HELIOS. Part of KANSAI PAINT.**

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