



CPC 20

ANTIBACTERIAL POWDER COATINGS

- good weathering resistance
- good mechanical properties
- antibacterial properties

DESCRIPTION

CPC 20 Antibacterial are powder coatings based on polyester resin cured with HAA (Primid). they offer very good application and performance characteristics. The powder is specially developed for exterior applications with combination of good weathering resistance, mechanical and levelling properties. Additionally, due to special ingredients, it prevents growth of bacteria and fungus.

Applications:

- for outdoor surfaces where we want to prevent growth of bacteria and fungus

SPECIFICATION

Shade:	principally RAL and NCS shades; also special colours are available by arrangement
Surface Appearance:	smooth, rough structure, fine structure
Gloss:	glossy ($\geq 80\%$), semi-glossy (50-70%), matt (20-30%) $\angle 60^\circ$
Density:	1400 – 1700 kg/m ³ , depending on colour shade
Coating equipment:	electrostatic, tribo
Spreading Rate:	cca. 7 m ² /kg at 80 μ m film thickness
Shelf Time:	24 months
Packaging:	cardboard box – 20 kg and 2 kg
Storage Conditions:	in originally closed boxes in dry place at temperature 5-25°C

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TEST RESULTS

*0,8 mm steel panel

**0,7 mm chromated Aluminium

Physical Properties:*	Glossy	Semi glossy	Matt
Cure parameters (object conditions)	10 min / 180°C	10 min / 180°C	20 min / 180°C
Film thickness in µm (ISO 2808)	60-70	60-70	60-80
Gloss, units $\angle 60^\circ$ (ASTM 523, ISO 2813)	≥ 80	50-70	20-30
Adhesion (ISO 2409)	Gt0	Gt0	Gt0
Bend Test (ISO 1519)	≥ 3 mm	≥ 4 mm	≥ 4 mm
Elasticity - Cupping Test (DIN ISO 1520)	≥ 7 mm	≥ 6 mm	≥ 6 mm
Hardness (Bucholz) (ISO 2815)	≥ 91	≥ 91	≥ 91

Chemical Properties:**

Salt spray 500 h (ISO 9227) –

Delamination at cut:

max. 1 mm

max. 1 mm

max. 1 mm

Hum. cabinet 500 h (ISO 6270-2) –

Delamination at cut:

max. 1 mm

max. 1 mm

max. 1 mm

Weather resistance – QUV test – gloss retention

(UV 313 nm + condensation, 200 hours)

> 50 %

> 50 %

> 50 %

SURFACE PRETREATMENT

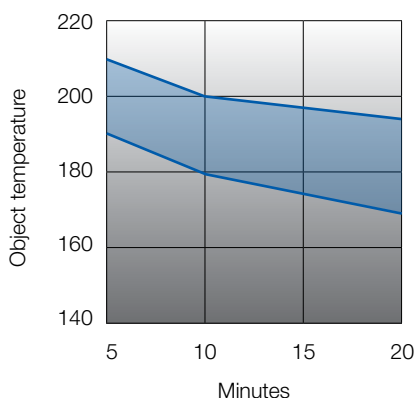
Aluminium: yellow or green chromated pretreated

Zn-plated steel: transparent chromate pretreated

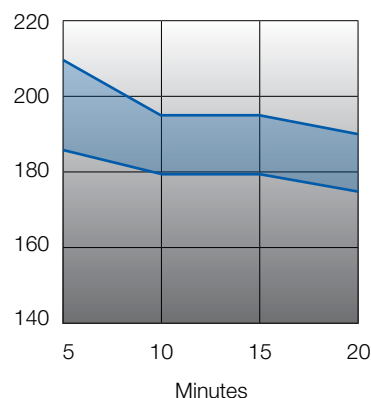
Iron: zinc phosphate or low-build iron phosphate or high-build iron phosphate

CURING

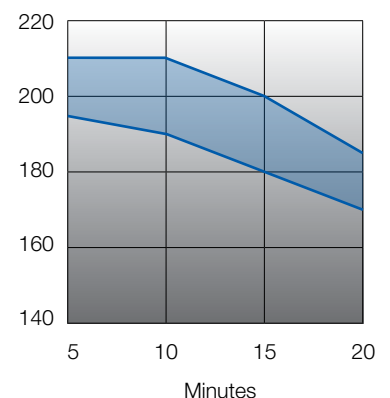
CPC 20-1, 20-2, 20-5, 20-7



CPC 20-2, 20-6, 20-8



CPC 20-3



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