

PRODUCT DATA SHEET

Ganzlin AC – CGL / CSG 419 Polyurethane Powder Coating

Range of application:

Weather- and light resistance polyurethane powder coating for industrial applications, like e.g., switch cabinets, machine cover parts, case covers etc.

Properties:

Glossy or silk-glossy polyurethane powder coating with good chemical resistance, high penetrating capacity and good flow characteristics.

Colour setting:

According to the customer's requirements, with only carefully selected and tested pigments being used to ensure a high light and weather resistance.

The colour settings will be oriented to the specified colour tolerances of VdL-RL 10th.

Pretreatment:

Depending on the demands regarding the adhesion and anti corrosiveness of the final product and considering the quality of the substrates, the following pre-treatments can be chosen.

| | |
|--------------------------|--|
| <u>Steel:</u> | degrease, blast, iron phosphate or zinc phosphate |
| <u>Aluminium:</u> | degrease, inert sweep blasting zinc phosphate, chromate according to DIN 50939 or suitable chromate free pre-treatment |
| <u>Galvanised steel:</u> | degrease, inert sweep blasting, zinc phosphate, chromate, or suitable chromate free pre-treatment |

Processing:

Electrostatic coating (EPS) at a processing voltage of 30 to 100 kV; or electro kinetic coating (Tribo-charging). **Metal-effect** and **pearlescent** colour **only EPS!** The relevant **safety instructions** (BGV D25, VDE and VDM guidelines) and our EU safety data sheet must be observed and followed.

Please note that the minimum layer thickness for a sufficient hiding power is depending on the colour shade. They may differ from the recommended thickness. A colour-related recommendation we make available on request.

Stoving conditions according to DIN 55990-4:

- 15 min. at 190°C object temperature
- 10 min. at 200°C object temperature

Shelf life:

18 months from delivery subject to dry storage at temperatures not exceeding 25°C and without exposure to radiator heat and sunlight!

PRODUCT SPECIFICATIONS:

The test results have been measured at a layer thickness of 70 - 90 µm on a steel test panel of 0.8 mm with a zinc phosphate layer.

| | | |
|---|--|---|
| Density | DIN EN ISO 2811-1 | 1,3 – 1,7 g/cm ³ (depending in colour shade) |
| Gloss | DIN EN ISO 2813 Angle of 60° | 85 ± 10 glossies 70 ± 5 silk-glossy |
| Cross cut adhesion test | DIN EN ISO 2409 | GT 0 |
| Bending test | DIN EN ISO 1519 | ≤ 8 mm |
| Erichsen cupping test | DIN EN ISO 1520 | > 4 mm |
| Buchholz hardness | DIN EN ISO 2815 | > 80 |
| Light fastness | DIN EN ISO 105-B02 | ≥ 6 |
| Weather resistance (QUV-B, 200 h) | DIN EN ISO 11507 | residual gloss (60°C) must be > 50% |
| Salt spray test | DIN EN ISO 9227 | No blistering after 240 h and under-rusting ≤ 1 mm |
| Condensate constant climate | DIN EN ISO 6270-2 | No blistering after 240 h and under-rusting ≤ 1 mm |
| Condensate alternating climate | DIN EN ISO 3231 0,2 l SO ₂ | No blistering after 10 cycles and under-rusting ≤ 1 mm |

Packaging:

15 kg polyethylene cardboard box

This data has been drawn up to the best of our knowledge and were correct at the date of issue. However, we cannot accept full responsibility, because the choice of products and circumstances during elaboration of the systems fall outside our judgement. This documentation sheet will not automatically be replaced in case of modification. On all deliveries the regular delivery terms are applicable.