

PRODUCT DATA SHEET

Ganzlin AC – GL / SG 529 *middle structure*

Area of application:

Weather and light resistant polyurethane-powder-coating for industrial coatings, like e. g. switch cabinets, machine cover parts, etc.

Characteristics:

Polyurethane powder coating in middle structure, glossy or silk-glossy, with good chemical resistance and high penetration capacity, for manufacturing of paint films with constant textured surfaces.

Colour setting:

According to the customer's requirements, with only carefully selected and tested pigments being used to ensure a high light resistance. The colour settings will be oriented to the specified colour tolerances of VdL-RL 10th.

Pretreatment:

Depending on the requirements with regards to the final product's adhesion and corrosion resistance and the quality of the surface/substrate, the following options are available:

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| <u>Steel:</u> | degreasing, blasting, iron or zinc phosphate |
| <u>Aluminium:</u> | degreasing, blasting, passivating or chromalising according to DIN 50939 and/or suitable chrome-free pre-treatment |
| <u>Galvanised substrates:</u> | degreasing, sweepen, zinc phosphate or chromalising and/or suitable chrome-free pre-treatment |

Processing:

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

Recommended layer thickness for middle structure: 80 - 100 µm

Please note that the minimum layer thickness for a sufficient hiding power is depending on the colour shade. This may depart from the recommended layer thickness. A recommendation based on the colour shade is made 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 covered with a zinc phosphate layer.

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| Density | DIN EN ISO 2811-1 | 1,3 – 1,7 g/cm ³ (depending on colour shade) |
| 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°) must be > 50% |
| Salt spray test | DIN EN ISO 9227 | No blistering after 240 h and under-corrosion ≤ 1 mm |
| Condensate constant climate | DIN EN ISO 6270-2 | No blistering after 240 h and under-corrosion ≤ 1 mm |
| Condensate alternating climate | DIN EN ISO 3231 0,2 l SO ₂ | No blistering after 10 cycles and under-corrosion ≤ 1 mm |
| Chemical resistance | DIN EN ISO 2812-4 DIN EN ISO 4628-1 | characteristics |
| Ethanol | 15s / 1h / 24h | 0 / 0 / 1 |
| Ethylacetat | 15s / 1h / 24h | 1 / 2 / 2 little matting |
| Methylethylketon | 15s / 1h / 24h | 1 / 2 / 2 little matting |
| Cyclohexan | 15s / 1h / 24h | 0 / 0 / 0 |
| Ammonia solution 3%ig | 15s / 1h / 24h | 0 / 0 / 0 |
| Hydrauliy oil | 15s / 1h / 8h / 24h 40h / 200h | 0 / 0 / 0 / 0 0 / 0 |
| Temperature stability | 4h by 150°C | No change in colour, easier veil in dark colour |

Packaging:

15 kg polyethylene bag in cardboard box

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