

PRODUCT DATA SHEET

Ganzlin GR – HSG 416

Area of application:

Epoxy powder coating for special indoor applications that require a low cure temperature or short stoving conditions, a good chemical resistance and corrosion protection. Suitable as a primer in combination with AR-SG, FA-SG or ST-HGL as top coat for outdoor use. Suitable for corrosivity classes C5-I and C5-M subject to a corresponding pre treatment and layer thickness in a double-layer.

Characteristics:

Silk-glossy high reactive epoxy powder coating for manufacturing paint films with good flow, covering characteristics and increased corrosion resistance as well as high elasticity.

Colour setting:

According to the customer's requirements.

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:

<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, blasting, 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). 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. A corresponding layer thickness recommendation specified according to the VdL-RL 10 can be provided upon request.

Stoving conditions according to DIN 55990-4:

15 – 20 min. at 130°C object temperature
10 – 20 min. at 140°C object temperature

Shelf life:

3 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 $70 \pm 10 \mu\text{m}$ on a steel test panel of 0.8 mm covered with a zinc phosphate layer.

Density	DIN EN ISO 2811-1	1,4 - 1,6 g/cm ³ (depending on colour shade)
Gloss	DIN EN ISO 2813 Angle of 60°	70 ± 10
Cross-cut adhesion test	DIN EN ISO 2409	Gt 0A
Bending test	DIN EN ISO 1519	≤ 5 mm
Erichsen cupping test	DIN EN ISO 1520	> 5 mm
Buchholz hardness	DIN EN ISO 2815	> 70
Impact Test	ASTM D 2794	> 40 inchpound
Salt spray test	DIN EN ISO 9227	No blistering after 500 h and under-corrosion ≤ 1 mm
Condensate constant climate	DIN EN ISO 6270-2	No blistering after 500 h and under-corrosion ≤ 1 mm
Condensate alternating climate	DIN EN ISO 3231 0,2 l SO ₂	No blistering after 20 cycles and under-corrosion ≤ 1 mm

Packaging:

15 kg polyethylene bag in disposable cardboard box

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