

# PRODUCT DATA SHEET

## *Ganzlin AP – BGL 415*

### **Area of application:**

Weather- and light-resistant polyester powder coating for outdoor applications. Suited for general industrial coatings, like e.g. container, steel constructions, gas cylinders, mechanical engineering parts, etc.

### **Characteristics:**

Polyester powder for manufacturing glossy paint films with excellent flow and covering characteristics as well as high elasticity and impact resistance.

### **Colour setting:**

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

### **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 pretreatment |
| <u>Galvanised substrates:</u> | degreasing, blasting, zinc phosphate or chromalising and/or suitable chrome-free pretreatment                     |

### **Processing:**

Electrostatic coating (EPS) at a processing voltage of 30 to 100 kV; or electrokinetic 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:

10 – 15 min. at 180°C object temperature  
8 – 12 min. at 200°C object temperature

### **Shelf life:**

6 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.

|   |  |  |
|---|--|--|
| <b>Density</b>                            | DIN EN ISO 2811-1                        | ca. $1.6 \text{ g/cm}^3$ (depending on colour shade)                     |
| <b>Gloss</b>                              | DIN EN ISO 2813<br>Angle of $60^\circ$   | $85 \pm 10$  |
| <b>Cross-cut adhesion test</b>            | DIN EN ISO 2409                          | Gt 0A  |
| <b>Bending test</b>                       | DIN EN ISO 1519                          | $\leq 5 \text{ mm}$  |
| <b>Erichsen cupping test</b>              | DIN EN ISO 1520                          | $> 5 \text{ mm}$   |
| <b>Buchholz hardness</b>                  | DIN EN ISO 2815                          | $> 80$   |
| <b>Impact Test</b>                        | ASTM D 2794                              | $> 80 \text{ inchpound}$   |
| <b>Weather resistance</b><br>(QUV, 200 h) | DIN EN ISO 11507                         | Relative residual gloss ( $60^\circ$ ) $> 50\%$                          |
| <b>Light fastness</b>                     | DIN EN ISO 105-B02                       | $\geq 7$   |
| <b>Salt spray test</b>                    | DIN EN ISO 9227                          | No blistering after 500 h and<br>under-corrosion $\leq 1 \text{ mm}$     |
| <b>Condensate<br/>constant climate</b>    | DIN EN ISO 6270-2                        | No blistering after 500 h and<br>under-corrosion $\leq 1 \text{ mm}$     |
| <b>Condensate<br/>alternating climate</b> | DIN EN ISO 3231<br>0,2 l SO <sub>2</sub> | No blistering after 20 cycles and<br>under-corrosion $\leq 1 \text{ mm}$ |

### Packaging:

15 kg polyethylene bag in disposable cardboard box

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The written information in our product specification sheet is provided according to the best of our knowledge and the current state of scientific and practical knowledge. It does not give rise to any legal contract relationship and no secondary obligation in connection to the purchase agreement. The information contained herein does not exempt the user from his/her obligation to assess the product's suitability for the intended purposes. Our liability is solely subject to our sales and delivery conditions.