

OXYPLAST POLYESTER POWDER COATING

GZ131C24

DESCRIPTION

OXYPLAST GZ131C24 is an acrylic clear powder coating, which provides outdoor durable coatings with high gloss, excellent flow out and clarity.

PROPERTIES OF THE POWDER

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| • Specific gravity (g/cm³) | (ISO 8130-2:1992) | 1.2 ± 0.05 |
| • Particle size distribution | Optimised for electrostatic application | |
| • Storage | Dry, max. 25 °C: at least 1 year | |
| • Application | With Corona gun
Film thickness: 60 - 80 µm | |
| • Curing schedule | 10 min. at 180 °C (metal temperature) | |

MECHANICAL PROPERTIES OF THE COATING

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|----------------------------|---------------------------------------|-------------|
| • Substrate | Cold-rolled steel (0.8 mm), degreased | |
| • Curing schedule | 10 min. 180 °C (metal temperature) | |
| • Film thickness | 50 - 100 µm | |
| • Gloss 60° | (ISO 2813:1994) | >90% |
| • Adhesion | (ISO 2409:2007) | Gt = 0 |
| • Buchholz hardness | (ISO 2815:1973) | >90 |
| • Pencil hardness | (ASTM D3363-00) | 2H-4H |
| • Clemen hardness | (ISO 1518:1992) | >2.5 kg |
| • Erichsen | (ISO 1520:1993) | > 5 mm |
| • Impact (direct) | (ISO 6272:1993) | <10 kg.cm |
| • Impact (reverse) | (ISO 6272:1993) | <10 kg.cm |
| • Conical mandrel | (ISO 6860:1984) | fine cracks |

ANTICORROSIVE PROPERTIES

To guarantee an optimal adhesion and an optimal corrosion protection – depending on the substrate – an optimal pre-treatment must be applied:

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| • Steel (indoor) | : iron phosphate amorphous |
| • Steel (outdoor) | : zinc phosphate crystalline,
or better: tri-cationic phosphatation |
| • Aluminium | : chromate treatment (DIN 50939) or Qualicoat-certified chromium free pre-treatment. |

REMARKS

- **OXYPLAST GZ131C24** is not compatible with other standard polyester powder coatings. A very good cleaning of the spray equipment before and after the application is necessary.
- **OXYPLAST GZ131C24** is UV resistant. However for outdoor applications it can not be applied on top of epoxy-based coatings because these will chalk and discolour under the clear acrylic topcoat.