



OMEGA Low Bake Polyester Gloss

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| Chemical type: | TGIC-free polyester |
| Product details: | Meets requirements of BS6496 and BS6497 Approved to Qualicoat Class 1(P-0141) and GSB (129b) Excellent outdoor durability, protective and decorative coating Available from stock in BS and RAL colours |
| Application: | Electrostatic and Tribo |
| Particle size: | 3% maximum > 120µm 10% maximum < 10µm 34-42µm average size |
| Curing: | 14 mins @ 170°C (metal temperature) 10 mins @ 180°C (metal temperature) 8 mins @ 190°C (metal temperature) |
| Gloss level: | 82+-5 units (60° head glossmeter) |
| Film thickness: | 40-120µm, typically 60µm |
| Shelf life: | 12 months in cool, dry conditions |
| Health and Safety: | Refer to Material Safety Data Sheet A1 from Valspar |

Product performance:

To ensure maximum adhesion the substrate must be thoroughly clean, free from grease, oil, rust, mill scale or any other contaminant. Cleaning may be carried out either by shotblasting, solvent or chemical degreasing. For applications where high corrosion or chemical resistance is required the substrate should be chemically treated prior to powder coating:-

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| Ferrous substrates: | Iron or Zinc phosphate |
| Zinc coated steel: | Zinc phosphate or Chromate conversion |
| Aluminium: | Chromate conversion |

The following tests were all carried out on 1mm steel test panels with zinc phosphate pretreatment and a nominal coating thickness of 60µm.

| TEST | UK SPECIFICATION | ISO/ASTM SPECIFICATION |
|----------------------------------|--|------------------------------|
| Cross hatch adhesion | BS3900 E6 – class 0 | ISO 2409 – pass Gt0 |
| Impact resistance | BS6496 – pass 20 “lbs | ASTM D 2794 – pass 2.5Nm |
| Flexibility | BS3900 E11 – pass 6mm | ISO 6960 – pass 6mm |
| Cupping test | BS3900 E4 – pass 8mm | ISO 1520 – pass 8mm |
| Scratch resistance | BS3900 E2 – pass 4kg | ISO 1518 – pass 4kg |
| Hot salt spray resistance | ASTM B117 – pass 1000 hours | ASTM B117 – pass 1000 hours |
| Humidity resistance | BS3900 F2 – pass 1000 hours | ASTM D2247 – pass 1000 hours |
| Artificial weathering | B3900 F16 –Pass 1000 hours | ISO 11507 pass 1000 hours |
| Natural weathering (Florida 45°) | Pass 1 year – minimal colour change, gloss retention > 50% | |
| Chemical resistance | Resistant to most acids, alkalis and oils at normal temperatures. May be affected by chlorinated solvents. | |

Whilst we endeavour to ensure all advice is correct, we have no control over either the quality or condition of the substrate or the many factors affecting the use and application of the product. Therefore, unless we specifically agree in writing to do so, we do not accept any liability arising from the use or performance of the product in service.