



OMEGA Polyester Matt

Chemical type:	TGIC-free Polyester Matt
Product details:	Meets requirements of BS6496 and BS6497 Excellent outdoor durability, protective and decorative coating Available from stock in BS and RAL colours Approved to Qualicoat class 1(P-0392) and GSB 129d
Application:	Electrostatic and Tribo
Particle size:	3% maximum >120µm 10% maximum <10µm 34-42µm average size
Curing:	15 mins @ 190°C (metal temperature) 10 mins @ 200°C (metal temperature) 8 mins @ 210°C (metal temperature)
Gloss level:	30+/-5 units (60° head glossmeter)
Film thickness:	40-120µm, typically 60µm
Shelf life:	12 months in cool, dry conditions
Health and Safety:	Refer to K1 Material Safety Data Sheet 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:-

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

The following test 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.