



Synthatec Premium Matt

Chemical type:	TGIC-free Ultradurable Polyester
Product details:	Superior outdoor durability and colour retention
Application:	Electrostatic only
Particle size:	3% > 120µm 10% < 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% (60° head glossmeter)
Film thickness:	40-120µm, typically 60µm
Shelf life:	12 months in cool, dry conditions
Health and Safety:	Refer to relevant Material Safety Data Sheet K1 from Valspar
Product performance:	

It is essential to pretreat architectural components prior to application of Synthatec Premium. Detailed advice should be sought from the pretreatment supplier. Aluminium components should receive a multi-stage chromate conversion coating. Galvanised steel should receive a multi-stage pretreatment using either chromate or zinc phosphate. De-gassing of galvanised steel prior to powder application is considered mandatory.

The following tests were all carried out on 0.8mm chromated aluminium test panels having a nominal coating thickness of 60µm.

TEST	ISO/ASTM SPECIFICATION	UK SPECIFICATION
Cross hatch adhesion	ISO 2409 – pass Gt0	BS3900 E6 – class 0
Impact resistance	ASTM D 2794 – pass 2.5Nm*	BS6496 – pass 20 “lbs”*
Flexibility	ISO 1519 – pass 6mm*	BS3900 E11 – pass 6mm*
Cupping test	ISO 1520 – pass 8mm*	BS3900 E4 – pass 8mm*
Scratch/Hardness	ISO 2815 – min 80 rating	BS3900 E2 – pass 4kg
Acetic Acid salt spray resistance	ISO9227 – pass 1000 hours	BS6496 (15) – pass 1000 hours
Humidity resistance	ASTM 2247 – pass 1000 hours	BS3900 F2 – pass 1000 hours
Artificial weathering	ISO 11341 – pass 1000 hours	BS3900 F3 – pass 2000 hours
Natural weathering (Florida 45°)	Pass 5 years – minimal colour change and gloss reduction	
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.

* No film disbondment as specified in Qualicoat Class 2 and AAMA2604-98