



synthatec plus matt

Chemical type:	Superdurable Polyester
Product details:	Approved to Qualicoat (P-0139), GSB (129c) and AAMA2604-98 Meets requirements of BS6496:1984 and BS6497:1984 Superior outdoor durability and colour retention Available from stock in BS and RAL colours
Application:	Electrostatic and Tribo
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 from Valspar

Product performance:

It is essential to pretreat architectural components prior to application of synthatec plus. 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 5mm	BS3900 E11 – pass 5mm
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 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 the above information is typical, no warranty is expressed or implied.