



## synthatec satin

<b>Chemical type:</b>	Architectural Polyester
<b>Product details:</b>	Excellent exterior durability and colour retention Meets requirements of BS6496:1984 and BS6497:1984 and AAMA2604-98 Available from stock in BS and RAL colours
<b>Application:</b>	Electrostatic and Tribo
<b>Particle size:</b>	3% > 120µm 10% < 10µm 34-42µm average size
<b>Curing:</b>	15 mins @ 190°C (metal temperature) 10 mins @ 200°C (metal temperature) 8 mins @ 210°C (metal temperature)
<b>Gloss level:</b>	60 +/- 5 units (60° head glossmeter)
<b>Film thickness:</b>	40-120µm, typically 60µm
<b>Shelf life:</b>	12 months in cool, dry conditions
<b>Health and Safety:</b>	Refer to relevant Material Safety Data Sheet from Valspar

### Product performance:

It is essential to pretreat architectural components prior to application of synthatec satin. 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 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.*