



# syntha pulvin

## synthatec metallics

|                             |   |
|-----------------------------|---|
| <b>Chemical type:</b>       | Superdurable Polyester  |
| <b>Colour:</b>              | Various   |
| <b>Product details:</b>     | Meets requirements of BS6496:1984 and BS6497:1984<br>Approved to Qualicoat Class 1(P-0139) and GSB (129c)<br>Bonded Metallic. Superior outdoor durability and colour retention. |
| <b>Application:</b>         | Electrostatic,not suitable for Tribo  |
| <b>Particle size:</b>       | 3% maximum > 120µm<br>10% maximum < 10µm<br>34-42µm average size  |
| <b>Curing:</b>              | 15 mins @ 190°C (metal temperature)<br>10 mins @ 200°C (metal temperature)<br>8 mins @ 210°C (metal temperature)  |
| <b>Gloss level:</b>         | matt (visual)   |
| <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 K1 or K4 Material Safety Data Sheet from Valspar   |
| <b>Product performance:</b> |   |

This product should be applied according to the guidelines set out in *Application Requirements for Syntha Pulvin Metallics* document, which is available from Valspar on request.

It is essential to pretreat architectural components prior to application of Synthatec metallics. 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                              | 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 1519 – pass 6mm          |
| Cupping test                      | BS3900 E4 – pass 8mm   | ISO 1520 – pass 8mm          |
| Scratch/Hardness                  | BS3900 E2 – pass 4kg   | ISO 1518 – pass 4kg          |
| Acetic Acid salt spray resistance | BS6496 (15) – pass 1000 hours  | ISO 9227 – 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.*