



Alesta AP

Architectural Grade Polyester Powder
TGIC and Lead Free products.

Introduction:

Recommended for use in architectural applications such as window frames, cladding, shop fronts and other products where the highest levels of exterior durability are required. Meets in full the requirements for BS EN 12206-1:2004 and BS EN 13438:2005. The Alesta AP range is approved by the British Board of Agrément and Qualicoat. These products are suitable for Tribo application. Can give rise to micropinholing at very high film thickness (>150m).

Colour:

Wide range of RAL colours ex-stock or to customer's requirements.

Gloss Level:

Gloss - 80-90% @ 60°

Semi-gloss - 60-75% @ 60°

Matt - 25-35% @ 60°

Film Properties:

Alesta AP Polyester powders fully conform to the requirements of BS EN 12206-1:2004 and BS EN 13438:2005.

Test results are as follows, all tests carried out on Aluminium Alloy to EN AW-1050A (halfhard); pretreated using a proprietary chromate conversion process.

Adhesion	ISO 2409 (2mm)	- No detachment.
Cupping Test	ISO 1520	- 6 mm min.
Impact	EN 12206 5.7	- Pass 20in/lbs.
Scratch	BS 3900 E2	- Pass 4 kg.
Mortar Resistance	EN 12206 5.9	- No effect.
Salt Spray	ISO 9227 (1,000 hrs)	- 2 mm creep after 1,000 hours. No blistering.
Artificial Weathering	ISO 11341 (1,000 hrs)	- Meets BS EN 12206-2004 4.3.14
Humidity	ISO 6270 (1,000 hrs)	- No blistering or detachment.
S0 ² Resistance	ISO 3231	- Pass 24 cycles.
Permeability	EN 12206 5.10	- Pass.
Weathering	Florida 5°S	- Minimum 50% gloss retention after 12 months exposure.

Specific Gravity:

1.4 - 1.7 depending on colour and gloss.

Coverage:

8 - 11 sq meters/kilo @ 70 microns at 100% powder utilisation. Variable with colour and gloss.

Film Thickness:

Recommended 60-80 microns.

Storage:

24 months shelf life below 35°C

Stoving Parameters:

- APX Gloss & Satin
 - 12' @ 180°C metal temperature.
 - 8' @ 200°C metal temperature.
- APX Matt
 - 22' @ 180°C metal temperature.
 - 12' @ 190°C metal temperature.
 - 9' @ 200°C metal temperature.

Handling:

Precautions should be taken to avoid inhalation of airborne particles. References should be made to the Guide Lines laid down in the "Code of Safe Practice Application and Thermosetting Coating Powders by Electrostatic spraying" issued by the British Coatings Federation and to the individual safety data sheet for the product.

No condition or warranty is to be assumed from the foregoing information.

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