

PURE POLYESTER INDUSTRIAL POWDER COATING

ALL RAL SHADES

PRODUCT DISCRIPTION:

This TGIC-Pure Polyester powder coating is specifically designed to meet stringent requirements of the construction industry. It provides high levels of gloss retention, colour stability and corrosion protection along with aesthetic looks. This powder provides uniform flow and attractive finish even after recycling.

APPLICATION:

These products are highly recommended to meet gloss retention and colour stability requirements. Primary areas of application are architectural aluminium extrusions and claddings.

Powder Properties:	Chemical type	Pure-polyester
	Particle size	Suitable for electrostatic spray
	Gloss	Visually
	Specific gravity	1.2 – 1.9 g/cm ³ depending on colour
	Storage Shelf life	Dry cool conditions below 30°C peak temperature 6 months below 30°C peak temperature
	Stoving schedule (Object temperature)	15-18 minutes at 180°C 10-12 minutes at 200°C

Test Conditions:

The results shown below are based on mechanical and chemical tests which (unless otherwise indicated) have been carried out under laboratory conditions and are given for guidance only. Actual product performance will depend upon the circumstances under which the product is used.

Substrate	M.S (0.5-0.8mm)
Pre-treatment	Phosphating
Film Thickness	60-80microns
Stoving	10 minutes at 200°C (object temperature)

Mechanical Tests:

Dry Adhesion	ISO 2409	Pass Gt 0
Enrichen Cupping	ISO1520 and	Pass
Dry Film Hardness	ISO2815 (Buchholz)	Pass > 80
Impact	ASTM D2794	Pass

Flexibility	ISO1519	Pass
Gloss	ISO 2813	77±7

Chemical and Durability Tests:

Salt Spray	ISO7253	Pass at 1000 hours - no Corrosion more than 1.6mm
Isopropyl Alcohol		15 Cycle pass

Chemical Resistance

Generally good resistance to Acids, alkalis and oils at Normal temperatures
Average

Colour Stability at Elevated temperatures

Pretreatment:

For maximum protection it is essential to pre-treat components prior to the Application of **Powder**. Components should receive a full multi- stage pre-treatment to clean and condition the substrate. Detailed advice should be sought from the pre-treatment supplier.

Application:

Rapid powders can be applied by manual or automatic electrostatic spray equipment. For solid shades, unused powder can be reclaimed using suitable equipment and recycled through the coating system. For mixed colours and certain special effect finishes, advice must be sought from the manufacturer, as to the suitability or otherwise of the product for recycling. Certain special effect finishes may not be suitable for recycling.

Safety Precautions:

Please consult the Material Safety Datasheet (MSDS)