

RAPID COAT R-10 SERIES POLYURETHANE POWDER COATING

Polyurethane Semi Glossy

PRODUCT DISCRIPTION:

This Polyurethane based 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 temperature Shelf life	Dry cool conditions below 30°C peak	
		6 months below 30°C peak temperature	
Test Conditions:	The results shown below are based on mechanical and che which (unless otherwise indicated) have been carried out u laboratory conditions and are given for guidance only. Actu performance will depend upon the circumstances under wh product is used.		
	Substrate	Aluminium	
	Pre-treatment	Phosphating	
	Film Thickness	60-80microns	
	Stoving schedule (Object temperature)	15-18 minutes at 180°C 10-12 minutes at 200°C	
Mechanical Tests:	Dry Adhesion	ISO 2409	Pass Gt 0
	Enrichen Cupping	ISO1520 and	Pass
	Dry Film Hardness	ISO2815 (Buchholz)	Pass > 80

ASTM D2794

Pass

Issue Date: 07.03.2017

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Impact



Flexibility ISO1519 Pass

Gloss ISO 2813 77±7

Chemical and Salt Spray ISO7253 Pass at 1000 hours - no

Durability Tests: corrosion more than 1.6mm

Isopropyl Alcohol 15 Cycle pass

Chemical Resistance Generally good

resistance to acids, alkalis and oils at

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Normal temperatures

Colour Stability at Average

Pretreatment: For maximum protection it is essential to pre-treat components prior

to the

Elevated temperatures

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)