

Product Data Sheet

AkzoNobel Powder Coatings

Interpon D1300 Gloss

Product Description	<p>Interpon D1300 Gloss is a range of powder coatings intended for use on architectural aluminium coil and sheets giving an excellent post-forming flexibility and outdoor performance.</p> <p>Available in a wide range of colours on demand, Interpon D1300 Gloss has been specifically formulated without the use of TGIC and lead-free.</p> <p>Interpon D1300 Gloss gives excellent exterior durability and colour retention and conforms to the requirements of all the major European architectural finishing standards.</p>		
Powder Properties	Chemical type	Polyester	
	Appearance	Smooth Gloss	
	Gloss level	75 - 95 gloss units	
	Particle Size	Suitable for electrostatic spray	
	Specific gravity	1.2-1.7g/cm ³ depending on colour.	
	Storage	Dry, cool conditions (open boxes must be resealed)	
	Shelf life	9 months below 20°C	
	Curing schedule	2 minutes at 232°C (Peak Metal temperature.)	
Mechanical Tests	Flexibility	ISO 1519 (cylindrical Mandrel)	Pass 4mm
	Adhesion	ISO 2409 (2mm Crosshatch)	Pass Gt0
	Erichsen cupping	ISO1520	Pass >7mm
	Impact resistance	ISO 6272	Pass 10 Joules reverse & direct
	Hardness	ISO 2815	> 80
Environmental and Durability Tests	Acetic Acid Salt Spray	ISO 9227	<16 mm ² corrosion/10cm (1000 hrs)
	Constant Humidity	ISO 6270	No blistering, creep <1mm (1000 hrs)
	Sulphur Dioxide	ISO 3231	Pass 30 cycles– no blistering, loss of gloss or discoloration
	Permeability	Pressure Cooker EN12206-2004	Pass 1 hour, no blistering
	Chemical Resistance		Generally good resistance to acid, alkalis and oils at normal temperatures.
	Mortar Resistance	EN12206-2004	No effect after 24 hours
	Accelerated Weathering	ISO16474-2 (1000 hrs) ISO11507:1997	>50% Gloss retention

	QUV B 313 (600 hrs)
Exterior Durability	ISO 2810 >50% Gloss retention Colour retention in accordance with the major European architectural standards. Chalking – none in excess of minimum in ASTM D659:1980
Test Conditions	Testing has been determined under laboratory conditions using the following application properties and is for guidance only.
Substrate	Aluminum (1.2 mm)
Pretreatment	Chrome free Qualicoat/GSB approved pretreatment
Film thickness	50-70 microns (ISO 2360)
Cure schedule	2 minutes at 232° C (peak metal temperature)
	Actual film performance will depend on the individual circumstances in which the product is used.
Pre-treatment	For maximum protection it is essential to pretreat components prior to the application of Interpon D1300 Gloss . Aluminium components should receive a full multi-stage chromate conversion coating or suitable chrome-free pre-treatment or suitable pre-anodising to clean and condition the substrate. Detailed advice should be sought from the pre-treatment supplier.
Application	Interpon D1300 Gloss powders can be applied by manual or automatic electrostatic spray equipment. For solid shades, unused powder can be reclaimed up to a maximum of 30% using suitable equipment and recycled through the system. Please consult AkzoNobel for further details as to the correct mixing ratio for virgin/reclaim powder. All powders can show small color differences from batch to batch, this is normal and unavoidable. While AkzoNobel take every precaution to minimize visible differences, this cannot be guaranteed. Applicators and fabricators are advised to use a single batch for parts that will be assembled together. Differences are more likely with special effect powders. Bonded products have better application properties than blended products (more stable) but attention should still be paid to line settings in order to avoid “marble effect” and changes in aspect after recycling. A constant ratio between virgin and recycled powders should be fixed by the coater in order to achieve a consistent effect. For more information, it is suggested to read the <i>Metallic Applications Guidelines</i> . Products with different codes should not be mixed even if same color and gloss.
Post Application	For specific advice on the suitability of post coating processes such as bending or the use of sealants, adhesives, thermal break, cleaning etc. Please consult AkzoNobel.
Maintenance	For specific advice on Cleaning and Maintenance, please consult the <i>Interpon D series Cleaning and Maintenance Guidelines</i> available from AkzoNobel.
Safety Precautions	Text as per local regulations
Disclaimer	IMPORTANT NOTE: The information in this data sheet is not intended to be exhaustive and is based on the present state of our knowledge and on current laws: any person using the product for any purpose other than that specifically recommended in the technical data sheet without first obtaining written confirmation from us as to the suitability of the product for the intended purpose does so at his own risk. It is always the responsibility of the user to take all necessary steps to fulfil the demands set out in the local rules and legislation. Always read the Material Data Sheet and the Technical Data Sheet for this product if available. All advice we give or any statement made about the product by us (whether in this data sheet or otherwise) is correct to the best of our knowledge but we

have no control over the quality or the condition of the substrate or the many factors affecting the use and application of the product.

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