

Product Data Sheet

AkzoNobel Powder Coatings

Interpon Coarse Texture Low-E

Product Description	<p>Interpon Coarse Texture Low-E is a range of polyester based powder coatings, formulated without the use of TGIC. This range is designed for either interior or exterior environment, offering excellent light and weather resistance on a variety of substrates.</p> <p>In particular, the products in the range, offer a consistent coarse texture finish across the whole coated surface, and are excellent for situations where substrate imperfections need to be hidden. They are also easy to apply and can be cured from 150-170°C thereby offering potential energy reductions during the cure process.</p>		
Powder Properties	Chemical type	Polyester	
	Appearance	Coarse Texture	
	Gloss level	Gloss as per visual assessment	
	Recommended Film Thickness	80-110 microns	
	Specific gravity	1.20 – 1.90 g/cm ³ ±0.03 (Please consult CoA of product)	
	Storage	Under dry, cool (≤ 25°C) conditions (open boxes must be resealed)	
	Shelf life	At least 24 months from production date	
	Curing schedule (at object temperature)	20-40 minutes at 150°C 12-24 minutes at 160°C 8-14 minutes at 170°C 5-10 minutes at 180°C	
Mechanical Tests	Flexibility	ISO 1519 (cylindrical Mandrel)	Pass 5mm
	Adhesion	ISO 2409 (2mm crosshatch)	Gt0
	Erichsen cupping	ISO 1520	Pass >5mm
	Impact resistance	ISO 6272:1993	Pass 2,5 Joules (reverse & direct (20 in lb)
	Hardness	ISO 2815	>80
Environmental and Durability Tests	Constant humidity	ISO 6270	No blistering, creep <1mm (1000 hours)
	Chemical Resistance	Generally good resistance to acid, alkalis and oil at room temperatures	
	Exterior durability	Excellent – non- chalking,	

			slight loss of gloss after 12 months continues exposure but no film breakdown or reduction in protective properties
	Salt Spray	ISO 7253 (500 hours)	Pass - no corrosion creep more than 3mm from scribe
Test Conditions	Testing has been determined under laboratory conditions using the following application properties and is for guidance only.		
	Substrate	Gold Seal polished steel	
	Pretreatment	Gold Seal Lightweight Zinc Phosphate	
	Film thickness	80-90 microns	
	Cure schedule	18 minutes at 160°C (object 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 Coarse Texture Low-E .		
	Aluminium components should receive a full multi-stage chromate conversion coating or suitable chrome-free pre-treatment or suitable pre-anodizing to clean and condition the substrate. Detailed advice should be sought from the pre-treatment supplier.		
	Galvanized steel requires surface preparation by either multi-stage pretreatment using either zinc phosphate or chromate conversion or controlled sweep blasting. Depending on the type of galvanizing, degassing or use of anti-bubbling additives may be required – follow the procedural advice of the pretreatment supplier.		
	Interpon Coarse Texture Low-E products may also be used on cast or mild steel. For outdoor use, Interpon Redox PZ corrosive protective primer over a correctly prepared substrate is recommended.		
Application	Interpon Coarse Texture Low-E powders can be applied by manual or automatic electrostatic spray or tribo-charging equipment. For solid shades, unused powder can be reclaimed up to a maximum of 20% using suitable equipment and recycled through the system. Please consult AkzoNobel for further details as to the correct mixing ratio for virgin/reclaim powder.		
	Interpon Coarse Texture Low-E powders should be applied at minimum 80µm.		
	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 details it is suggested to read the “Metallic Application Guideline”.

Different substrates (aluminum, steel, galvanized steel...), use of primer, and big changes in film thickness may give a different aspect.

Products with different codes should not be mixed even if same color and gloss.

Additional information	For specific advice on Cleaning and Maintenance please consult the Interpon 610 series Cleaning and Maintenance Guidelines available from AkzoNobel.
Approvals	Interpon Coarse Texture Low-E are approved according to Coatings, Organic, for Steel Enclosures of Outdoor-use Electrical Equipment UL 1332.
Safety Precautions	Please consult the Material Safety Datasheet (MSDS)
Disclaimer	<p>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.</p> <p>Therefore, unless we specifically agree in writing otherwise, we do not accept any liability whatsoever for the performance of the product or for any loss or damage arising out of the use of the product. All products supplied and technical advices given are subject to our standard terms and conditions of sale. You should request a copy of this document and review it carefully. The information contained in this data sheet is subject to modification from time to time in the light of experience and our policy of continuous development. It is the user's responsibility to verify that this data sheet is current prior to using the product.</p> <p>Brand names mentioned in this data sheet are trademarks of or are licensed to AkzoNobel</p>

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