

Product Data Sheet

AkzoNobel Powder Coatings

Interpon 610 Low-E

Product Description

Interpon 610 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.

The products in the range are engineered to minimize the formation defects such as pinholes caused by air bubbles in the paint film due to gas release in porous substrates during curing.

The cured coating shows no blooming effect. They are also easy to apply and can be cured from 150-170°C thereby offering potential energy reductions during the cure process.

Powder	Properties
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Chemical type	Polyester – TGIC Free		
Gloss (60°)	Gloss (85), Satin (70), Matt (30)		
Appearance	Smooth		
Recommended Film Thickness (µm)	60 - 120 μm		
Density (g/cm³)	1,2 - 1,8 g/cm³ depending on color (see CoA for product specific)		
Application	Electrostatic		
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)	10 00 : 1 110000		

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	Gold Seal polished steel		
	Pretreatment	Gold Seal Lightweight Zinc Phosphate		
	Film Thickness	60 - 80 microns		
	Curing Schedule (object temperature)	23 minutes at 150°C		
Mechanical Tests	Flexibility (Cylindrical Mandrel)	ISO 1519	Pass 5mm	
	Adhesion (2mm crosshatch)	ISO 2409	Gt0	

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	Erichsen Cupping	ISO 1520	Pass 5mm		
	Hardness (2000g) Impact	ISO 1518	Pass - no penetration to substrate ≥ 50 kgcm (direct/reverse)		
Chemical and Durability Tests	The results shown are based on tests which (unless otherwise indicated) have been carried out under laboratory conditions and are given for advice only, actual performance depends upon the circumstances under which the product is used.				
	Salt Spray (250 hours)	ISO 9227	Pass - no corrosion creep more than 2mm from scribe		
	Cyclic Humidity (1000 hours)	ISO 6270	Pass - no blistering or loss of gloss		
	Distilled Water Immersion (240 hours)	ISO 2812	Pass - no blistering or loss of gloss		
	Exterior Durability	Excellent – non chalking, slight loss of gloss after 12 months continuous exposure but no film breakdown or reduction in protective properties			
	Chemical Resistance	Generally excellent resistance to most acids, alkalis and oils at normal temperatures.			
Pre-treatment	Aluminium, steel or Zintec surfaces to be coated must be clean and free from grease. Iron phosphate and particularly lightweight zinc phosphating of ferrous metals improves corrosion resistance. Aluminium substrates may require a chromate conversion coating.				
Application	Interpon 610 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 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.				
	Recommended film thickness	60-120 µm. A good protection is linked with the recommended film thickness.			
	Recycling	Unused powder can be reclaimed using suitable equipment and recycled through the coating system, but a minimum of 70% new powder should be used.			

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 to avoid "marble effect" and changes in aspect after recycling. A constant ratio between virgin and recycled powders should be fixed by the coater to achieve a consistent effect. For more details it is suggested to read the "Metallic Application Guideline".

Different substrates (Aluminium, 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.

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Damage repair

Any damage of the **Interpon 610 Low-E** coating system must be repaired as soon as possible

Surface preparation

Damaged areas must be clean and free of grease or rust. Dry-sand the area with 600 grade paper down to the substrate. The area must be completely free of dust and cleaned with a non-aggressive solvent before proceeding.

Application

For repairs a PU (2K or 1K) liquid paint is recommended.

Safety Precautions

This product is intended for use only by professional applicators in industrial environments and should not be used without reference to the relevant health and safety data sheet which Akzo Nobel has provided to its customers.

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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