

Product Data Sheet

AkzoNobel Powder Coatings

Interpon D34

Product Description

Interpon D34 is a series of durability powder coatings specially formulated for use on architectural aluminum.

Interpon D34 conforms with the performance requirements of GB5237.4 specification.

Interpon D34 is designed to offer significantly higher gloss retention and resistance to colour change combined with maximum film integrity to ensure long term cosmetic and functional protection.

Interpon D34 powders are available in a selected range of colours pearlescent effects in gloss, satin and matt, fine and coarse texture effect also available.

Powder Properties

Chemical type	Polyester
Appearance	Depends on specific product
Particle Size	Suitable for electrostatic spray
Gloss	Depends on specific product
Specific gravity	1.2-1.7 g/cm ³ (depending on color)
Storage	Dry cool conditions below 30 °C
Shelf life	6months (<30 °C), 12 months (<25 °C)
Stoving schedule (object temperature)	15 minutes at 190°C 10 minutes at 200°C Failure to observe the correct curing conditions may cause difference in colour, gloss and the deterioration of the coating properties.

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	Al extrusion
Pretreatment	qualified Cr ³⁺ , Cr ⁶⁺ or non-Cr pretreated
Film Thickness	60-80 microns
Stoving Schedule	10 minutes at 200°C (object temperature)

Mechanical Tests

Adhesion	GB/T 9286	Gt 0
Erichsen Cupping	GB/T 9753	Pass > 5mm
Impact	GB/T 1732	Pass-Reverse impact, 2.5mm deformation no crack
Indentation hardness	GB/T 9275	Pass-Minimum 80 with the specified required
Bend test	GB/T 6742	Pass-Bending mandrel 3mm no crack
Boiling Water	GB5237.4-5.4.10	Pass-No detachment of the film, Slight gloss and color change is allowed

Chemical and Durability Tests

Constant Climate	GB/T 1740	Pass-1000 hours, no blistering or loss of gloss
Condensation		
Mortar Resistance	GB5237.4-5.4.12	Pass- 24 hours, Gloss loss is slight
Accelerate durability	GB/T 1865	Pass-1000 hours

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Corrosion Tests	Acetate Acid Salt Spray Acid Resistance	GB/T 10125 GB5237.4-5.4.11	Pass-1000 hours,infiltration length<4mm Pass-15 minutes,no blistering or detachment
Pre-treatment	Aluminum surfaces to be coated must be clean and free from grease. Aluminum substrates may require a chromate conversion coating.		
Application	Interpon D34 powders can be applied by manual or automatic electrostatic spray equipment, however for consistency of finish automatic equipment is preferred. Unused powder can be reclaimed using suitable equipment and recycled through the coating system.		
	Fluidizing air pressure Transport air pressure Recommended voltage	~0.7 bar ~0.7bar 40-90kV	
Damage Repair	Surface preparation Application	Sanding + Air cleaning Recoat : Lower Voltage	
Safety Precautions	When using, do not eat, drink or smoke. Do not breathe the dust. In case of insufficient ventilation wear suitable respiratory equipment. For further information please refer to the specific product Material Safety Data Sheet (MSDS) available on request from your local AkzoNobel sales office.		
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 fulfill 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>		
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