

Product Data Sheet

AkzoNobel Powder Coatings

Interpon 700

Product Description

Interpon 700 is a series of epoxy/polyester hybrid powder coatings offering stable color and heat stability whilst maintaining an optimum combination of decorative and protective qualities.

Interpon 700 powders are available in the full range of colours in gloss, reduced gloss, textured, aluminum and other special finishes or can be custom matched to the user's requirements and can be custom matched to the user's requirements.

Powder Properties

Chemical type	Epoxy/ Polyester
Appearance	Depends on specific product
Particle Size	Suitable for electrostatic spray
Gloss	Depends on specific product
Specific gravity	1.2-1.8 g/cm ³ (depending on color)
Storage	Dry cool conditions below 30°C
Shelf life	6 months (<30°C), 12 months (<25°C)
Stoving schedule (object temperature)	15 minutes at 180°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 Pretreatment	Mechanical tests: 0.6mm degreased steel Chemical and durability tests: Q-Al panel (A-36) Corrosion tests: Standard Zn-phosphating panel (GARDOBOND) or 0.6mm silane Q-Fe panel (R-36)
Film Thickness	60-80 microns
Stoving Schedule	10 minutes at 200°C (object temperature)

Mechanical Tests

Flexibility	ISO 1519 GB/T 6742	Pass 4mm Pass 4mm
Adhesion	ASTM D3359 ISO 2409 GB/T 9286	5B Gt 0 Gt 0
Erichsen Cupping	ISO 1520 GB/T 9753	Pass >6mm Pass >6mm
Impact (direct)	ASTM D2794 GB/T 1732	>=30kg·cm 50kg·cm
Pencil hardness*	ASTM D3363 GB/T 6739	>=H >=H

**The pencil used in hardness test is Mitsubishi pencil*

Chemical and Durability Tests

Humidity	ASTM D1735	Pass-1000 hours, no blistering or loss of gloss
Distilled Water Immersion	ASTM D870	Pass-240 hours, no blistering or loss of gloss
Exterior Durability		Some chalking after 6-12 months continuous outdoor exposure but less

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	Chemical Resistance		than pure epoxies. Protective properties not impaired Generally good resistance to most acids, alkalis and oils at ambient temperatures
Corrosion Tests**	Neutral Salt Spray (standard Zn-phosphating)	ISO 9227	Pass-800 hours, creep less than 2mm from scribe
	Neutral Salt Spray (Silane pretreatment)	ISO 9227	Pass-500 hours, creep less than 2mm from scribe
	<i>**Actual corrosion resistance is determined by substrate type, pretreatment effect, coating type and coating process and so on.</i>		
Pre-treatment	Aluminum, steel or Zintec surfaces to be coated must be clean and free from grease. Silane, ceramic, iron phosphate or lightweight zinc phosphate of ferrous metals improves corrosion resistance. Aluminum substrates may require a chromate conversion coating or chromium free passivation film.		
Application	Interpon 700 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	~0.7bar	
	Transport air pressure	~0.7bar	
	Recommended voltage	40-90kV	
Damage Repair	Surface preparation	Sanding + Air cleaning	
	Application	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	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. 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.		
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