

Product Data Sheet

AkzoNobel Powder Coatings

Interpon 700 AS

Product Description

Interpon 700 AS is a series of metallic and special effect epoxy/polyester hybrid powder coatings which share the coating properties of standard Interpon 700 powders. However, compared to conventional metallic and special effect powders, Interpon 700 AS grade products have improved reproducibility between application conditions, and improved stability of colour, gloss and effect when recycled.

Powder Properties

Chemical type	Epoxy/Polyester
Particle Size	Suitable for electrostatic spray
Specific gravity	1.2-1.7 g/cm ³ depending on colour
Storage	Dry cool conditions below 25°C
Shelf life	12 months
Stoving schedule (object temperature)	20 minutes at 160°C 10 minutes at 180°C 6 minutes at 200°C

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	50 microns
Stoving Schedule (object temperature)	6 minutes at 200°C

Mechanical Tests

Adhesion (2mm Crosshatch)	ISO2409	Gt0
Erichsen Cupping	ISO1520	7mm
Hardness (2000gms)	ISO1518	Pass - no penetration to substrate
Impact	ASTM D2794	Pass 2.5mm
Flexibility (Conical Mandrel)	ISO6860	Pass 3mm

Chemical and Durability Tests

Salt Spray (250 hours)	ISO7253	No corrosion creep more than 2mm from scribe
Cyclic Humidity (1000 hours)	BS3900-F2	No blistering or loss of gloss
Distilled Water Immersion (240 hours)	BS3900-F7	No blistering or loss of gloss
Exterior Durability	Some chalking after 6-12 months continuous outdoor exposure but less than pure epoxies. Protective properties not impaired	
Colour Stability at elevated temperatures	Good - satisfactory for continuous exposure up to 125°C	
Chemical Resistance	Generally excellent resistance to most acids and 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.

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Application

Interpon 700 AS products are suitable for application with corona electrostatic spray equipment. Tribostatic spray grades are available for some finishes on request. The actual application parameters must be adapted and adjusted depending on the type of component and with each powder batch in order to give a finish in accordance with our colour standard. The use of direct box feed equipment may not reproduce fully the finish on our colour standard. To ensure powder homogeneity, empty the boxes totally into the feed hopper. Only one spray run and one batch should be used for components that are going to be simultaneously visible following assembly/fabrication. For manual application it is essential to ensure that an even film thickness is applied. We recommend the use of flat jet spray nozzles for all metallic and metallic-effect products. This product may be recovered and recycled on most common equipment subject to normal controls on ratios of recycled to virgin powder. AkzoNobel should be consulted for specific recommendations on recycle ratios for this product, but in any circumstances the recycled: virgin ratio should not exceed 1:5.

Additional Information

Bright aluminium finish grades of Interpon 700 AS are susceptible to scratching and finger marking. Protection by use of a clear polyester topcoat is recommended when the coated article is to be subjected to physical or environmental damage. When overcoating, it is recommended that the powder is "green" or only partially cured at 160°C to maximise intercoat adhesion. The topcoat should ideally be applied within 2 hours of the metallic coating, and gloves should be worn when handling the metallic coated articles. For further details on the use of metallic powder coatings please contact AkzoNobel.

Safety Precautions

Please consult the Material Safety Datasheet (MSDS)

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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