

Product Datasheet



BU Powder Coatings

AkzoNobel
Tomorrow's Answers Today

Interpon 700

Product Description

Interpon 700 is a series of epoxy/polyester hybrid powder coatings offering improved colour, UV-light and heat stability compared to the **Interpon 100** range of pure epoxies, 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, aluminium and other special finishes or can be custom matched to the user's requirements.

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
Sales Code	E-series
Stoving schedule^(a)	20 minutes at 160°C
(object temperature)	10 minutes at 180°C
	6 minutes at 200°C

(a) For full matt powders add 5 minutes to times shown.
For high reactivity (HR) powders see overleaf

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	Mechanical tests: Gold Seal polished steel Chemical & durability tests: Gold Seal lightweight
Pretreatment	Zinc phosphate
Film Thickness	50 microns
Stoving	6 minutes at 200°C (object temperature)

Mechanical Tests

Adhesion	BS EN ISO2409 (2mm Crosshatch)	Gt 0
Erichsen Cupping	ISO1520	Pass >7mm
Hardness	BS EN ISO 1518 (2000gms)	Pass - no penetration to substrate
Impact	BS3900-E3	Pass 2.5mm
Flexibility	ISO6860 (Conical Mandrel)	Pass 3mm

Chemical and Durability Tests

Salt Spray	ISO7253 (250 hours)	Pass - no corrosion creep more than 2mm from scribe
Cyclic Humidity	BS3900-F2 (1000 hours)	Pass - no blistering or loss of gloss
Distilled Water Immersion	BS3900-F7 (240 hours)	Pass - 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 good resistance to acids, alkalis and oils at normal temperatures	

Interpon 700

Pretreatment	<p>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.</p> <p>Aluminium substrates may require a chromate conversion coating.</p>
Application	<p>Interpon 700 powders can be applied by manual or automatic electrostatic spray equipment. Unused powder can be reclaimed using suitable equipment and recycled through the coating system.</p>
Additional	<p>Interpon 700 powders are available in bright aluminium finishes which are susceptible to scratching and finger marking. Protection by use of a clear polyester top coat is recommended when the coated article is to be subjected to physical damage or environmental damage. The top coat 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 Akzo Nobel.</p> <p>Interpon 700HR (High Reactivity) powders are also available for use where a lower stoving temperature or shorter curing schedule is required.</p> <p>Sales code: F-Series</p> <p>Stoving schedule: 15 minutes at 160°C (object temperature) 5 minutes at 180°C</p> <p>Shelf life: 6 months</p> <p>For further details on powder properties and film performance of Interpon 700HR please contact Akzo Nobel.</p>
Safety Precautions	<p>Please consult the Material Safety Datasheet (MSDS)</p>

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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 advice 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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