

Product Data Sheet

AkzoNobel Powder Coatings

Interpon 100

Product Description

Interpon 100 is a series of epoxy based powder coatings designed to give optimum mechanical performance and exceptional protective qualities on fabrications and components where long term exposure to ultra violet light or exterior weathering is not anticipated. Interpon 100 powders are available in gloss, satin, matt or textured finishes in a wide range of standard colours or can be custom matched to the user's requirements

Powder Properties

Chemical type	Epoxy
Sales Code	A-series
Particle Size	Suitable for electrostatic spray
Specific gravity	1.2-1.8 g/cm ³ depending on colour
Storage	Dry cool conditions below 25°C (open boxes must be resealed)
Shelf life	12 months
Stoving schedule ^(a)	20 minutes at 160°C (object temperature) 10 minutes at 180°C 5 minutes at 200°C

(a) For full matt powders add 5 minutes to the times. 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	Gold Seal polished steel
Pretreatment	Mechanical tests: Gold Seal polished steel Chemical & durability tests: Gold Seal lightweight Zinc Phosphate
Film Thickness	50 microns
Cure Schedule	5 minutes at 200°C (object temperature)

Mechanical Tests

Flexibility	ISO 6860 (Conical Mandrel)	Pass 3 mm
Adhesion	ISO 2409 (2mm Crosshatch)	Gt 0
Erichsen Cupping	ISO 1520	Pass >7 mm
Hardness	ISO 1518 (2000 gms)	Pass - no penetration to substrate
Impact	ISO 6272 (1993)	Pass 2 mm direct and reverse

Chemical and Durability Tests

Salt Spray	ISO 7253 (250 hours)	Pass - no corrosion creep more than 2mm from scribe
Cyclic Humidity	ISO 6270-1 (1000 hours)	Pass - no blistering or loss of gloss
Distilled Water Immersion	ISO 2812 (240 hours)	Pass - no blistering or loss of gloss
Exterior Durability	Some chalking and loss of gloss after 3-6 month continuous outdoor exposure. Protective properties retained.	
Colour Stability at elevated temperatures	Fair – gradual yellowing of white and pastel shades on continuous exposure above 100°C.	
Chemical Resistance	Generally good resistance to acids, alkalis and oils at normal temperatures	

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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 100 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.

Additional Information

Interpon 100HR	(High Reactivity) powders are also available for use where a lower stoving temperature or shorter curing schedule is required.
Sales code	B-Series
Stoving schedule	30 minutes at 130°C (object temperature) 15 minutes at 150°C 5 minutes at 180°C
Shelf life	6 months

For further details on powder properties and film performance of Interpon 100HR 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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AkzoNobel Powder Coatings B.V. T +31 (0)71 308 6981
24 Rijksweg 31 F +31 (0)71 318 6924
31 / PO Box 32170 BA www.interpon.com
Sassenheim
The Netherlands

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