Product Data Sheet

AkzoNobel Powder Coatings
Interpon 700 AC

Product Description

Interpon 700 AC powder coatings are part of the Interpon 700 range and maintain all of the film performance attributes of an epoxy/polyester chemistry but are designed to offer users significant improvements in their application characteristics. They can be sprayed on conventional equipment and are compatible with standard powders but give a more uniform coverage, and in particular give improved coverage in Faraday Cage areas. Powders are available in a range of colours in gloss and reduced gloss finishes, and are always 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/cm³ depending on colour
Storage	Dry cool conditions below 25°C
Shelf life	12 months
Stoving schedule [(a)] (object temperature)	20 minutes at 160°C 10 minutes at 180°C 6 minutes at 200°C

(a) For full matt powders add 5 minutes to times shown. For high reactivity 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	Gold Seal lightweight Zinc phosphate
Film Thickness	50 microns
Stoving Schedule (object temperature)	6 minutes at 200°C

Mechanical Tests

Adhesion (2mm Crosshatch)	ISO 2409	Gt0
Erichsen Cupping	ISO1520	Pass >7mm
Hardness (2000gms)	ISO 1518	Pass - no penetration to substrate
Impact	BS3900-E3	Pass 2.5mm
Flexibility (Conical Mandrel)	ISO6860	Pass 3mm

Chemical and Durability Tests

Salt Spray (250 hours)	ISO7253	Pass - no corrosion creep more than 2mm from scribe
Cyclic Humidity (1000 hours)	BS3900-F2	Pass - no blistering or loss of gloss
Distilled Water Immersion(240 hours)	BS3900-F7	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 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.
Application	Interpon 700 AC 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 700 AC (High Reactivity) powders are also available for use where a lower stoving temperature or shorter curing schedule is required. **Stoving schedule** (object temperature): 15 minutes at 160°C; 8 minutes at 180°C **Storage**: Dry cool conditions below 25°C **Shelf life**: 6 months For further details on powder properties and film performance of Interpon 700 ACHR 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.** **Brand names mentioned in this data sheet are trademarks of or are licensed to AkzoNobel**

AkzoNobel Powder Coatings B.V.
24 Rijksstraatweg
31 / PO Box 32170 BA
Sassenheim
The Netherlands

T +31 (0)71 308 6981
F +31 (0)71 318 6924
www.interpon.com

Interpon 700 AC - Issue 1
Issued: 01.12.2014 Revision Date: 01.12.2014