

Product Data Sheet

AkzoNobel Powder Coatings

Interpon 700

EAB102 700 R9010 TN0

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, metallic and other special finishes or can be custom matched to the user's requirements.

Powder Properties

Chemical type	Epoxy/Polyester
Gloss (EN ISO 2813 (60°))	visually
Particle Size	Suitable for electrostatic spray
Specific gravity	1.69 g/cm ³ depending on colour
Storage	Dry cool conditions below 25°C (<i>open boxes must be resealed</i>)
Shelf life	12 months
Stoving schedule (Object Temperature) (a)	14 minutes at 180°C

Application Electrokinetic (Tribo)

(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	Gold Seal polished steel
Pretreatment	Gold Seal lightweight Zinc Phosphate
Dry Film Thickness	60 – 90 microns
Stoving Schedule	14 minutes at 180°C (object temperature)

Mechanical Tests

Flexibility	ISO6860 (cylindrical Mandrel)	Pass 5 mm
Adhesion	ISO2409 (2mm crosshatch)	Gt0
Erichsen Cupping	ISO1520	Pass >5 mm
Impact	BS3900-E3	30 cm
Hardness	ISO1518	Pass – no penetration to substrate

Chemical Tests

Salt spray	ISO7253	No corrosion creep > 2 mm from scribe. (250 hours)
Cyclic humidity	BS3900-F2	Pass – no blistering or loss of gloss (1000 hours)
Distilled Water Immersion	BS3900-F7	Pass – no blistering or loss of gloss (240 hours)
Colour Stability at elevated temperatures	Good - satisfactory for continuous exposure up to 125°C	
Chemical Resistance	Generally excellent resistance to acid, alkalis and oils at room temperatures	

Exterior Durability	Excellent - no chalking, slight loss of gloss after 12 months continuous exposure but no film breakdown or reduction in protective properties
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Pretreatment

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 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 powders are available in bright aluminium finishes which are susceptible to scratching and finger marking. For these products, protection by use of a clear polyester top coat is recommended when the coated article is to be subjected to physical 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 AkzoNobel.

Interpon 700HR (High Reactivity) powders are also available in selected grades for use where a lower oven temperature or shorter curing time is required.

Stoving schedule 15 minutes at 160°C
(object temperature) 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 610HR please contact AkzoNobel.

Safety Precautions

Please consult the Material Safety Datasheet (MSDS)

Disclaimer

FOR PROFESSIONAL USE ONLY

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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