Product Datasheet

BU Powder Coatings

Interpon 700 *AB*

The information given in this datasheet is generic for the range **Interpon 700 *AB***. Specific products within the range can vary from the generic. For these products individual product datasheets are available

Product Description

Interpon 700 *AB* is a series of epoxy/polyester hybrid powder coatings offering the benefits of **Interpon 700** in combination with specific antibacterial activity.

Interpon 700 *AB* powders are available in a full range of colours, in gloss, reduced gloss, textured 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/cm³ depending on colour
Storage	Dry cool conditions below 25°C
Shelf life	18 months at 30°C 12 months at 35°C
Sales Code	E-series
Stoving schedule[(a)] (object temperature)	15 – 30 minutes at 170°C 10 – 20 minutes at 180°C 6 – 12 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	0.8mm Steel panels
Pretreatment	Mechanical:Lightweight Iron Phosphate Chemical & Durability:lightweight Zinc phosphate
Film Thickness	50 – 70 microns
Stoving	10 minutes at 180°C (object temperature)

Mechanical Tests

Adhesion	ISO2409 (2mm Crosshatch)	Gt 0
Erichsen Cupping	ISO1520	Pass >7mm
Hardness	ISO1580 (4000gms)	Pass - no penetration to substrate
Impact	ASTM D2794	Pass 25 Kgcm direct and reverse
Flexibility	ISO6860 (Conical Mandrel)	Pass 3mm

Chemical and Durability Tests

Salt Spray	ISO7253 (240 hours)	Pass - no corrosion creep more than 2mm from scribe
Constant Humidity	ISO6270 (240 hours)	Pass - no blistering or loss of gloss
Distilled Water Immersion	ISO2812 (240 hours)	Pass - no blistering or loss of gloss
Exterior Durability	Not recommended for exterior use. Chalking after 6-12 months continuous outdoor exposure. 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.	

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 *AB* 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

Interpon 700 *AB* has been evaluated versus the Japanese Industrial Standard JIS Z2801:2000 and exhibited a minimum of 90% reduction in bacterial population, classified as “microbiological results satisfactory” where testing has been performed independently by competent external laboratories.
The bacteria tested were:
Listeria monocytogenes
Escheria coli 0157
Salmonella enteritidis
Staphylococcus aureus (resistant strain)
Bacilus subtilis
Pseudomonas auruginosa
Salmonella typhimurium
Streptococcus faecalis
Legionella pneumophila
Vibrio parahaemolyticus
Enterbacter aerogenes

Interpon 700 (High Reactivity) powders are also available for use where a lower stoving temperature or shorter curing schedule is required.

Sales code:	F-series
Stoving schedule:	12 – 18 minutes at 160°C
(Object temperature)	4 – 6 minutes at 180°C
Shelf life:	6 months

For further details on powder properties and film performance of **Interpon 700HR** please contact AkzoNobel.
Interpon AB should not be used to substitute good hygienic practises.
In environments with aggressive atmospheres eg steam, high humidity; or aggressive cleaning agents, the lifetime of the coating may be reduced.

Safety Precautions

Please consult the Material Safety Datasheet (MSDS)

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 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.

AkzoNobel Powder Coatings Ltd. Worldwide Powder Group. Stoneygate Lane, Felling, Tyne & Wear. NE10 0JY. UK.
Tel: +44 (0) 191 469 6111 Fax: +44 (0) 191 438 5431 www.interpon.com