

BU Powder Coatings

Interpon 700 - EN100I-20Kg-EE NERO 70G F

Product Description

Interpon 700 is a series of epoxy/polyester hybrid powder coatings offering improved colour, UV-light and heat stability

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 Hybrid
Particle Size	Suitable for electrostatic spray
Specific gravity	1.2 -1.7 g/cm ³ depending on color
Storage	Dry cool conditions below 35°C
Shelf life	12 months
Sales Code	E-series
Stoving schedule ^(a) (object temperature)	20 minutes at 180°C 15 minutes at 190°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	Mechanical tests: Polished steel Chemical & durability tests: Pre-treated steel
Pretreatment	Zinc phosphate (or equivalent pre-treatment)
Film Thickness	60 microns
Stoving	15 minutes at 190°C (object temperature)

Mechanical Tests

Flexibility	ISO 1519:73 (cylindrical mandrel)	Pass 5mm
Adhesion	ISO 2409-1992 (2 mm crosshatch)	GT0
Erichsen cupping	ISO 1520	Pass >6mm
Hardness	ISO 15184 (2000gr)	Pass H – 2H
Impact	ISO 6272:1993	Pass 3 Joule D/R

Chemical and Durability Tests

Salt Spray	ISO7253 (500 hours)	Pass - no corrosion creep more than 3mm from scribe
Cyclic Humidity	ISO 6720-1:1998 (1000 hours)	Pass - no blistering or loss of gloss
Distilled Water Immersion	ISO 2812-2:1993 (240 hours)	Pass - no blistering or loss of gloss
Exterior Durability	Some chalking after 6-12 months continuous outdoor exposure. Protective properties not impaired	
Colour Stability at elevated temperatures	Good - satisfactory for continuous exposure up to 100°C	
Chemical Resistance	Generally good resistance to acids, alkalis and chemical substances at room temperatures	

Interpon 700

Pretreatment	Aluminium, steel or Zintec surfaces to be coated must be clean and free from grease. Iron phosphate and particularly lightweight zinc phosphating (or equivalent pre-treatment) of ferrous metals improves corrosion resistance. Aluminium substrates may require a chromate conversion coating (or equivalent pre-treatment)
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.
Applications in the marine field	For marine applications, related to cycles approved RINA / DM, the thickness of the metal support must be > = 0.6mm, and the thickness of the coating film must respect the value of $80\mu \pm 10\%$
Additional Informations	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. Interpon 700HR (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: 15 minutes at 160°C (object temperature) 5 minutes at 180°C Shelf life: 12 months For further details on powder properties and film performance of Interpon 700HR please contact Akzo Nobel.
Safety Precautions	Please consult the Material Safety Datasheet (MSDS)

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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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