Product Datasheet



BU Powder Coatings

Description	Interpon 610 is a series of polyester based powder coatings, formulated without the use of TGIC, designed for the exterior environment, offering excellent light and weather resistance from a single coat finish on a variety of substrates.			
	Interpon 610 powders are available in a wide range of colors in gloss, satin, matt, metallic and textured effects and can be custom matched to the user's requirements.			
Powder Properties	Chemical type	Polvester		
	Particle Size	Suitable for electrostatic spray		
	Specific gravity	1.2-1.8 g/cm ³ depending on colour		
	Storage	Dry cool conditions below 30°C		
	Shelf life	24 months		
	Sales Code	M-series		
	Stoving schedule ^(a)	15 minutes at 190°C		
	(object temperature)	10 minutes at 200°C		
	a) For high reactivity powd	8 minutes at 210°C ers 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-tre	eated steel	
	Pretreatment	Zinc phosphate (or equivalent pre-treatment)		
	Film Thickness	60 microns		
	Stoving	10 minutes at 200°C (object temper	rature)	
Mechanical Tests	Adhesion	ISO 2409-1992 (2mm crosshatch)	GT0	
	Erichsen Cupping	ISO1520	Pass >7mm	
	Hardness	ISO 15184 (2000gr)	Pass - no penetration to substrate	
	Impact	ISO 6272:1993	Pass 2.5 Joule D/R	
	Flexibility	ISO 1519:1973 (Cylindrical Mandr		
Chemical and Durability Tests	Salt Spray	ISO7253 (500 hours)	Pass - no corrosion creep more than 3mm from scribe	
	Cyclic Humidity	ISO 6720-1:1998	Pass - no blistering or loss	
	Distilled Water	(1000 hours) ISO 2812-2:1993	of gloss Pass - no blistering or loss	
	Immersion	(240 hours)	of gloss	
	Exterior Durability		of gloss after 12 months continuous exposure	
		but no film breakdown or reduction in protective properties		
	Chemical Resistance	Generally good resistance to acids temperatures	s, alkalis and chemical substances at normal	
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)			



Interpon 610

Applications in the marine field	recommended that powder film thickness be between 60-110 microns. Unused powder can be reclaimed using suitable equipment and recycled through the coating system For the metallics we suggest to avoid any recycling of powder. For "special effect" any variation in application (tribo / corona; voltage) can bring to differences in final finish. The actual application parameters must be adapted and adjusted depending on the type of components and with each powder batch in order to give a finish in accordance with our color standard. For marine applications, related to cycles approved RINA /MED, 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 Information	Interpon 610 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 outdoor environments. Unprotected bright metallic finishes are prone to darkening in an outdoor environment. 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 610 High Reactivity powders are also available in selected grades for use where a lower stoving temperature or shorter curing schedule is required. Sales code: N-Series		
	Stoving schedule: 15 minutes at 160°C		
	(object temperature) 8 minutes at 180°C		
	Shelf life: 12 months		
	For further details on powder properties and film performance of Interpon 610 High Reactivity please contact Akzo Nobel.		
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.

Brand names mentioned in this data sheet are trademarks of or are licensed to Akzo Nobel



 Akzo Nobel Coatings Spa – Via Silvio Pellico, 8 – 22100
 Como – Italy

 Tel: ++39.031.345 111 - Fax: ++39.031.345 352 WWW.interpon.com

 Interpon is a trademark of Akzo Nobel group
 WWW.interpon.com