Product Data Sheet

AkzoNobel Powder Coatings

Interpon® HYF PLUS

Product Description

Interpon HYF PLUS is a coating developed for internal parts of water boilers. The product has good mechanical properties, high chemical resistance and excellent boiling water resistance.

Powder Properties

Chemical type	Modified Epoxy
Colour	Green, Blue, Grey – medium or dark shade
Particle Size	Suitable for spray application
Gloss	ISO2813-1978 (E) 85%±5
Specific gravity	1.5 ± 0.2 g/cm³ (Theoretical value,it depends on the colour)
Shelf life	6 months
Stoving schedule (object temperature)	20 min at 200°C

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:	0.6mm degreased steel
	Chemical Tests:	0.6mm Zinc and iron phosphated steel
Film Thickness	60 ± 5 Mechanical tests – 75±5 micron Chemical tests	
Stoving	20 min at 200°C - (object temperature)	

Mechanical Tests

	Method	**Result**
Adhesion	ISO 2409	Gt0
Erichsen Cupping	ISO1520	> 6 mm
Hardness	ASTM D3363	H-2H
Impact (indiretto)	ISO6272	2 Joule - pass
Flexibility	ISO1519	Pass 3 mm

Test di corrosione

	Method	**Result**
Salt Spray	ISO 9227 - ASTM B117	600 hrs detachment < 1 mm from the cross hatch
Umidostatic Chamber	ISO 6270-1	1000 hrs - Without blistering or loss of gloss
Boiling Water Resistance @ 98°	Akzo Nobel F12 (Internal Method - Akzo Nobel)	> 1500 hrs (Iron phosphate steel) > 2500 hrs (Zinc phosphate steel) > 200 hrs (sand blasted)

Pre-treatment	The best boiling water resistant performances are linked to the pre-treatment quality. For more information regarding specific substrates and applications for **Interpon HYF PLUS** contact Akzo Nobel.
Application	**Interpon HYF PLUS** can be applied by manual or automatic electrostatic spray equipment. Unused powder can be reclaimed using suitable equipment and recycled through the coating system.
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**

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