



BU Powder Coatings

Interpon IT 1000 Standard

Product Description

Interpon IT 1000 is a series of epoxy/polyester hybrid powder coatings, it is available in the full range of colors in gloss, reduced gloss, textured, aluminum and other special finishes or can be custom matched to the user's requirements, it is for interior use.

Powder Properties

Density 1.2 – 1.7 g/cm³ depending on color
Storage Dry cool conditions
Shelf life Under dry, cool (<25°C) conditions
 12 months
Stoving schedule 10 minutes at 200°C (object temperature)
 Failure to observe the correct curing conditions may cause difference in color, gloss and the deterioration of the coating properties.

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: Gold Seal polished steel
 Chemical & durability tests: Gold Seal lightweight
Pretreatment Zinc phosphate
Film Thickness 50 microns
Stoving 10 minutes at 200°C (object temperature)

Mechanical Tests

Norman Abrasion	ASTM F2357 - 04	No visual wear through to substrate or other paint layer after 150 cycles
Taber Abrasion	ASTM D4060 - 07	<100mg loss of coating weight
Adhesion	ASTM D3359 - 09	5B with 1mm squares
Pencil Hardness	ASTM D3363 - 05	H~2H, no scratches visible under 5x magnification
Direct Impact	ASTM D2794 - 93	No visible damage to film upto 20kg.cm with 16mm ball diameter
Mandrel Bend	ASTM D522 - 93a	No visible damage to film with ¼ " mandrel

Reliability Tests

Chemical Sensitivity	ASTM D1308 - 02	No visible stain (With common cosmetics and cleaners)
Water Resistance in 100%RH	ASTM D2247 - 02	No visible change after 500 hours
Practical Washability	ASTM D4828 - 94	No visible change after 100 cycles (Each with DI water, 2.5% Ethanol, 1.84% Sodium Hypochlorite)
Solvent Resistance	ASTM D4752 - 03	No visual change after 20 double rubs (With Methyl Ethyl Ketone)



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Thermal Shock Test	ITTS001 (AN Internal)	No visible change
Resistance to Overbaking	ASTM D2454 - 08	No significant change in appearance and performance

Pretreatment

Aluminum, steel or Zinc surfaces to be coated must be clean and free from grease. Iron phosphate and particularly lightweight zinc phosphating of ferrous metals improves corrosion resistance. Aluminum substrates may require a chromate or non-chromate conversion coating.

Application

Interpon IT 1000 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 IT 1000 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: 6 months

Safety Precautions

This product is intended for use only by professional applicators in industrial environments and should not be used without reference to the relevant health and safety data sheet which AkzoNobel has provided to its customer. If for any reason a copy of the relevant health and safety data sheet is not immediately available the user should contact AkzoNobel to obtain a copy before using the product. When using do not eat, drink or smoke. All dusts are respiratory irritants. Therefore, inhalation of the dust or of the vapors resulting from the cure should be avoided. Take steps to prevent skin contact, but should contact occur, wash skin with soap and water. In case of eye contact flush immediately with clean water and seek medical advice. Dust clouds of any finely divided organic material can be ignited with an electric spark or open flame. Dust and powder should not be allowed to build up on surfaces or ledges. Dust collection equipment should be used which has provision for adequate explosion release. All equipment should be electrically earthed to prevent build up of static.

Disclaimer

The information given in this sheet is not intended to be exhaustive and any person using the product for any purpose other than that specifically recommended in this 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. Whilst we endeavor to ensure that all advice we give about the product (whether in this sheet or otherwise) is correct we have no control over either the quality or condition of the substrate or the many factors affecting the use and application of the product. Therefore, unless we specifically agree in writing to do so, we do not accept any liability whatsoever or howsoever arising for the performance of the product or for any loss or damage (other than death or personal injury resulting from our negligence) arising out of the use of the product. The information contained in this sheet is liable to modification from time to time in the light of experience and our policy of continuous product development.