

# Product Datasheet



**AkzoNobel**  
Tomorrow's Answers Today

## BU Powder Coatings

### Interpon IT 4000 Super Gloss – JN015KHG

#### Product Description

**Interpon IT4000** is a series of super flow and super gloss finish which is designed for the decoration of IT hardware. It is for interior and exterior use currently.

#### Powder Properties

**Density** 1.3±0.1 g/cm<sup>3</sup>  
**Storage** Dry cool conditions  
**Shelf life** Under dry, cool (<25°C) conditions  
6 months  
**Stoving schedule** 12 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: Cold rolled steel  
Chemical & durability tests: Sealed aluminum  
**Pretreatment:** Zinc phosphate, Chromate  
**Film Thickness:** 120 – 140 micron  
**Stoving:** 12 minutes at 200°C (object temperature)

#### Mechanical Tests

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

#### Reliability Tests

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

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Interpon IT 4000 - Version 1

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**Interpon**  
powder coatings  
**EVERY COLOR IS GREEN**

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<b>Thermal Shock Test</b>	ITTS001 (AN Internal)	No visible change
<b>Resistance to Overbaking</b>	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 4000** powder can be applied by manual or automatic electrostatic spray equipment. Unused powder can be reclaimed using suitable equipment and recycled through the coating system. Best results are normally achieved when AkzoNobel technical service personnel help to optimize the running conditions on-line.

#### Additional Information

Please pay more attention to the DFT of finish and cleanness of operation workplace which will affect the hiding power and flow, for further details on powder properties and film performance of **Interpon IT 4000** please contact Akzo Nobel representative.

#### 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.