Interpon AC

Product Description:

The **Interpon AC** range of powders offer significant advantages to users of powder coatings. They maintain all of the film performance attributes of conventional powders, but with much improved application properties. They can be sprayed on conventional equipment and are compatible* with standard powders but give a more uniform coverage, and in particular give improved coverage in Faraday Cage areas.

Interpon AC powders are available in a range of chemistry types and colours in gloss and reduced gloss finishes, and are always custom matched to the user's requirements.

Powder Properties:

Chemical type	Various - depends on end use
Particle size	Suitable for spray application
Specific gravity	1.2-1.7 g/cm³ depending on colour
Storage	Dry cool conditions below 25°C
Shelf life	12 months
Sales Code	5-series
Stoving schedule	To match user's requirements

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: Steel
Pretreatment	Zinc phosphate
Film Thickness	50 microns
Stoving	10 minutes at 180°C (object temperature)

Mechanical Tests:

Adhesion	BS EN ISO2409 (2mm Crosshatch)	Gt 0
Erichsen Cupping	ISO1520	Pass >7mm
Hardness	BS EN ISO1518 (2000gms)	Pass - no penetration to substrate
Impact	BS3900-E3	Pass 2.5 joules direct and reverse
Flexibility	ISO6860 (Conical Mandrel)	Pass 3mm

Chemical and Tests:

Salt Spray	ISO7253 (250 hours)	Pass - no corrosion creep more than 2mm from scribe
Cyclic Humidity	BS3900-F2 (1000 hours)	Pass - no blistering or loss of gloss
Distilled Water Immersion	BS3900-F7 (240 hours)	Pass - no blistering or loss of gloss
Chemical Resistance		Generally excellent resistance to most acids, alkalis and oils at normal temperatures

Exterior Durability	Some chalking after 6-12 months continuous outdoor exposure but less than pure epoxies. Protective properties not impaired.
Colour Stability at elevated temperatures	Good - satisfactory for continuous exposure up to 125°C

Pretreatment:

Aluminium, steel or Zintec surfaces to be coated must be clean and free from grease. Iron phosphate and particularly lightweight zinc phosphating of ferrous metals improves corrosion resistance.

Aluminium substrates may require a chromate conversion coating.

Application:

Interpon AC powders can be applied by manual or automatic electrostatic spray equipment. The full benefits are realised on automatic equipment, or automatic with manual touch-in. Unused powder can be reclaimed using suitable equipment and recycled through the coating system.

Best results are normally achieved when Akzo Nobel technical service personnel help to optimise the running conditions on-line.

Additional Information:

For further details on powder properties and film performance of **Interpon AC** please contact Akzo Nobel.

Safety Precautions:

When using do not eat, drink or smoke. Do not breathe the dust. In case of insufficient ventilation wear suitable respiratory equipment.
For further information please refer to the specific product Material Safety Data Sheet (MSDS).

***Compatibility**

Interpon AC powders are formulated specifically for the end –user and designed to be compatible with Akzo Nobel non- **Interpon AC** equivalents. Compatibility with other powders should be tested prior to application. The full application improvement is only realised if the application equipment is cleaned of conventional powder prior to **Interpon AC** going on line.

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 endeavour 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.

Akzo Nobel Powder Coatings Ltd. Worldwide Powder Group. Stoneygate Lane. Felling. Tyne & Wear. NE10 0JY. UK.
Tel: +44 (0) 191 469 6111 Fax: +44 (0) 191 438 5431 www.interpon.com
Copyright ©2004 Akzo Nobel Powder Coatings Ltd. **Interpon** *is a registered trademark of Akzo Nobel*