

Interpon AF

Product Description: The **Interpon AF** (Advanced Fluidity) 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 run at lower air settings.

Interpon AF 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/cm ³ 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	40 - 50 microns
Stoving	6 minutes at 200°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 AF powders can be applied by manual or automatic electrostatic spray equipment, but the full benefits are only realised on automatic equipment. Unused powder can be reclaimed using suitable equipment and recycled through the coating system. Tribostatic versions can also be supplied. 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 AF 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 AF powders are formulated specifically for the end –user and designed to be compatible with Akzo Nobel non- Interpon AF 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 AF 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.
