

Product Datasheet



BU Powder Coatings

AkzoNobel
Tomorrow's Answers Today

Interpon AF

Product Description

The **Interpon AF** (Advanced Fluidity) range of powders offers 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 users requirements.

Powder Properties

Chemical type Various – dependent on end use

Particle Size Suitable for spray application

Specific gravity 1.2 – 1.7 g/cm³ dependent on colour

Storage Dry cool conditions below 25°C

Shelf life 12 months

Sales Code 5-series

Stoving schedule To match users 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 and 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 Gt 0
(2mm Crosshatch)

Erichsen Cupping ISO1520 Pass >7mm

Hardness BS EN ISO1518 Pass - no penetration to
(2000gms) substrate

Impact BS3900-E3 Pass 2.5 joules direct and
reverse

Flexibility ISO6860 Pass 3mm
(Conical Mandrel)

Chemical and Durability Tests

Salt Spray ISO7253 Pass - no corrosion creep
(250 hours) more than 2mm from scribe

Cyclic Humidity BS3900-F2 Pass - no blistering or loss
(1000 hours) of gloss

Distilled Water Immersion BS3900-F7 Pass - no blistering or loss
(240 hours) 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 125°C

Interpon
powder coatings
EVERY COLOR IS GREEN

Interpon AF

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.
Safety Precautions	Please consult the Material Safety Datasheet (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.

FOR PROFESSIONAL USE ONLY

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 advice 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.

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