Product Datasheet

BU Powder Coatings

Interpon 320

The information given in this datasheet is generic for the range **Interpon 320**. Specific products within the range can vary from the generic. For these products individual product datasheets are available.

Product Description

Interpon 320 is a series of polyester resin based thermo-setting powder coatings, without TGIC.
The **Interpon 320** resin system is warning label free. The pigments used in the **Interpon 320** series restrict the field of application of this powder coatings class to interior uses.
Interpon 320 is designed for interior decoration : metal furniture, shop fittings, shelves, light fittings, …

Powder Properties

Chemical type	Polyester
Specific Gravity	1.2 – 1.95 g/cm³ depending on colour and effect
Storage	Dry cool conditions
Shelf life	18 months at 30°C 12 months at 35°C
Stoving schedule (object temperature)	at 180°C : min 12 mn - max 24 mn at 200°C : min 8 mn - max 16 mn at 210°C : min 4 mn - max 10 mn

Coating

Aspect Varies with specific products within the range

Test conditions

The results shown are based on tests which (unless otherwise indicated) have been carried out under laboratory conditions and are given for advice only, actual performance depends upon the circumstances under which the product is used.

Substrate	0.5 mm steel
Pre-treatment	Zinc phosphate
Film thickness ISO2360	80 microns
Stoving	12 minutes at 200°C (object temperature)

Mechanical tests		Smooth Aspect	Fine Structure Aspect	Coarse Structure Aspect
Flexibility	ISO 1519	6 mm	5 mm	5 mm
Adhesion	ISO 2409	Gt 0	Gt 0	Gt 0
Impact	ISO 6272-1	1 kg 0.5 m	1 kg 0.5 m	1 kg 0.5 m
Erichsen Cupping	ISO 1520	> 6 mm	> 6 mm	> 6 mm
Chemical and durability test				
Salt spray *Note test only relates to corrosion resistance*	ISO7253	250 hr pass	250 hr pass	250 hr pass
Constant humidity *Note test only relates to Corrosion resistance*	ISO6270	1000 hr pass	1000 hr pass	1000 hr pass
Chemical resistance		See Post Application	See Post Application	See Post Application

Industrial application conditions

Pre-treatment

Aluminium, steel or Zintec surfaces must be clean and free from grease.
Iron phosphate and lightweight zinc phosphating of ferrous metals improves corrosion resistance.
Aluminium surfaces may require a suitable chromate conversion, chrome free pre-treatment or flash anodising for certain applications.
Galvanised steel may require zinc or chromate conversion or sweep blasting.
Detailed advice should be sought from the pre-treatment supplier

Recommended film thickness

Smooth	:	60 - 80 microns
Fine Structure	:	60 - 90 microns
Coarse Structure	:	80 - 100 microns

Application

Interpon 320 powder coatings can be applied by corona electrostatic or tribostatic equipment.
However the aspect obtained by tribostatic equipment may vary when compared to electrostatic application and/or our colour card.
In all application processes the aspect obtained is subject to variation, depending on the method of application (type of gun, nozzle, pot etc) and the shape/type of component.
We recommend that the actual application parameters are adapted and adjusted depending on the type of component and with each powder batch in order to give a finish in accordance with our colour card.

The following procedure is given as a guideline when using these finishes :
We recommend the use of flat jet spray nozzles.
To ensure powder homogeneity empty the boxes totally into the tray or feed hopper.
Only one spray run and one batch of powder should be used for components which are to be used in the same project.
For manual application it is essential to ensure that an even film thickness is applied and in all Instances sinusoidal gun movements should be avoided.

Recycling

Depending of the product - Consult Technical Support of Akzo Nobel

Post Application

Contact with Chemical Agents

Contact, even of a short duration with certain household products and chemicals, can cause irreversible changes in the gloss and appearance. We recommend that a test is carried out on a non-visible area before using these types of products on these coatings.

Exposure to aggressive Environments

Due to the high level of metallic particles some finishes are sensitive to aggressive environments (i.e. humid, or areas in which wear by rubbing occurs).
For protection overcoating with a clear coat is recommended.
When using a topcoat the application should be done immediately on the same site.
The maximum allowable period between coats is 2 hours.
For further information please contact Akzo Nobel.

Safety Precautions

Please consult the Material Safety Datasheet (MSDS)

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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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