

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
	Particle size	1.2-1.95 depending on color 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	ISO7253	250 hr pass	250 hr pass	250 hr pass
<i>Note test only relates to corrosion resistance</i>				
Constant humidity	ISO6270	1000 hr pass	1000 hr pass	1000 hr pass
<i>Note test only relates to corrosion resistance</i>				
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

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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:

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).

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.
