Product Data Sheet

AkzoNobel Powder Coatings

Interpon 300

Product Description

Interpon 300 is a series of polyester resin based thermo-setting powder coatings formulated using TGIC. The pigments used in the Interpon 300 series restrict the field of application of this powder coatings class to interior uses. Interpon 300 is designed for interior decoration such as, metal furniture, shop fittings, shelves, light fittings.

Powder Properties

Chemical type	Polyester TGIC
Particle Size	Suitable for electrostatic spray
Specific gravity	1.2-1.95 g/cm³ depending on colour and effect
Storage	Dry cool conditions below 25°C (open boxes must be resealed)
Shelf life	12 months
Stoving schedule (object temperature)	12 to 24 minutes at 180°C 8 to 16 minutes at 200°C 4 to 10 minutes at 210°C

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	Gold Seal polished 0.5mm steel
Pretreatment	Gold Seal lightweight Zinc Phosphate
Film Thickness	80 microns
Stoving Schedule	12 minutes at 200°C (object temperature)

Mechanical Tests

		Smooth	**Fine Structure**	**Coarse Texture**
Flexibility (Cylindrical Mandrel)	ISO 6860	Pass 6 mm	Pass 5 mm	Pass 5 mm
Adhesion	ISO 2409 (2mm Crosshatch)	Gt 0	Gt 0	Gt 0
Erichsen Cupping	ISO 1520	Pass 6 mm	Pass 6 mm	Pass 6 mm
Impact	ISO 6272 (1993)	50kgcm	50kgcm	50kgcm

Chemical and Durability Tests

Salt Spray (250 hours)	ISO 7253	No corrosion creep >2mm from scribe. Class 0 No change of visual appearance
Cyclic Humidity (1000 hours)	ISO 6270-1	No corrosion creep >2mm from scribe. Class 0 No change of visual appearance

Pre-treatment

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, chrome free pre-treatment or flash anodizing for certain applications.
Galvanised steel may require zinc or chromate conversion or sweep blasting.
Detailed advice should be sought from the pre-treatment supplier.

Application

Interpon 300 powder coatings can be applied by corona electrostatic or tribostatic equipment.
However the aspect obtained by tribo-static 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, 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, the complete content of the boxes should be emptied completely into the feed hopper. 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 AkzoNobel.		
Recommended Film thickness	**Smooth** 60-80 microns	**Fine Structure** 60-90 microns	**Coarse Texture** 80-100 microns

Additional Information

Contact with Chemical Agents
Contact, even for 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 nonvisible area before using these types of products on these coatings

For further information please contact your AkzoNobel representative.

Safety Precautions

Please consult the Material Safety Datasheet (MSDS)

Disclaimer

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.
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