Technical Datasheet

Interpon 300

Polyester powder coatings for indoor use

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

	Typical value
Chemical Type	Polyester – TGIC
Density	1.2 - 1.9 g/cm³, depending on colour and effect
Recommended film thickness	60 - 90µm
Shelf life	12 months below 30 ºC
Storage Conditions	(open boxes must be resealed) Dry, cool conditions
Curing schedule	12-24 min at 180°C 8-16 min at 200°C 4-10 min at 210°C (at object temperature)

Pre-treatment

Galvanised steel requires surface preparation by either multi-stage pretreatment using either zinc phosphate or chromate conversion or controlled sweep blasting. Depending on the type of galvanizing, degassing or use of anti-bubbling additives may be required – follow the procedural advice of the pretreatment supplier.
Iron phosphate and particularly Zinc phosphating of ferrous metals improves corrosion resistance. Aluminium substrates may require a chromate conversion coating.

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Application

Powders can be applied by manual or automatic electrostatic spray equipment.
A good protection is linked with the recommended film thickness.
Bonded products have better application properties than blended products (more stable) but attention should still be paid to line settings in order to avoid “marble effect” and changes in aspect after recycling.
Different substrates (aluminium, steel, galvanized steel…), use of primer, and big changes in film thickness may give a different aspect.
Products with different codes should not be mixed even if same colour and gloss.
It is recommended that for consistent application and appearance product be fluidized during application.

Interpon 300 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 color card.

Application Method	(depends on the product, please consult Akzo Nobel for more information), Tribo, Electrostatic
Recycling	Please consult AkzoNobel for further details as to the correct mixing ratio for virgin/reclaim powder. Unused powder can be reclaimed using suitable equipment and recycled through the coating system, but a minimum of 70% virgin powder should be used. For solid shades, unused powder can be reclaimed

Post application

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 non-visible area before using these types of products on this coating.

Test conditions

Actual product performance will depend upon the circumstances under which the product is used.
Testing has been determined under laboratory conditions using the following application properties and is for guidance only.

Pre-treatment	Zinc Phosphate
Substrate	Polished steel
Curing schedule	12 min at 200°C (object temperature)
Film Thickness	60 - 70µm

Mechanical tests

	Typical value	Method/standard
Adhesion	Class 0	ISO 2409 (2 mm Crosshatch)
Erichsen cupping	Pass 5 mm	ISO 1520
Flexibility	Pass 5 mm	ISO 1519
Hardness	Pass - no penetration to substrate	ISO 1518-1 (2000g)
Impact resistance	≥30 kg.cm	ISO 6272-2 (d/r)

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Chemical and durability tests

	Typical value	Method/standard
Chemical Resistance	Generally good resistance to acid, alkalis and oil at room temperatures.	
Salt spray test	Pass, no corrosion creep more than 3 mm from scribe, 500 h	ISO 9227

Environmental and durability tests

	Typical value	Method/standard
Humidity	Pass - no blistering or loss of gloss, 1000 h	ISO 6270-2 CH (Constant humidity)
Exterior durability	Some chalking and loss of gloss after 3-6 months continuous outdoor exposure. Protective properties retained. Not recommended for outdoor applications.	

Maintenance

For specific advice on Cleaning and Maintenance, please follow Powder Coatings: Cleaning & Maintenance of Surfaces for Industrial use available from AkzoNobel.

Repair

Surface preparation	Damaged areas must be clean and free of grease or rust. Dry-sand the area with 600 grade paper down to the substrate. The area must be completely free of dust and cleaned with a non-aggressive solvent before proceeding. Any damage of the coating system must be repaired as soon as possible.
Application	For repairs a PU (2K or 1K) liquid paint is recommended.

Safety Precautions

This product is intended for use only by professional applicators in industrial environments and should not be used without reference to the relevant health and safety data sheet which Akzo Nobel has provided to its customers.

Disclaimer

http://www.interpon.com/contact-us/

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