

# Technical Datasheet

## Interpon 600

Exterior durable polyester powder coatings



### Product description

**Interpon 600** is a range of polyester TGIC powder coatings designed for exterior exposure with good weather resistance from just one application. The coatings sustain a longer lifespan and are available in a wide range of colors and finishes which allow your product to shine. The Interpon 600 offers not only beautiful aesthetics but also a performance to match. It is ideally suited to a broad range of exterior applications including outdoor furniture, playground equipment, signs, fencing, vending machines and general metal finishing. Can also be used for indoor application if required.

The **Interpon 600** range provides total flexibility to satisfy every need. It includes a range of finishes including smooth, fine and coarse textures to suit any application, as well as gloss levels from deep matt to high gloss. And with color and shades including metallics that meet the appropriate standards such as RAL, Pantone and NCS.

### Approvals

<b>Resistance to Fire Approval</b>	A2,s1,d0 with film thickness up to 120 µm (generic polyester 600) according to EN13501-1
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### Powder properties

	Typical value
<b>Chemical Type</b>	Polyester – TGIC
<b>Density</b>	1.2 - 1.9 g/cm <sup>3</sup>
<b>Recommended film thickness</b>	60 - 90µm
<b>Shelf life</b>	24 months below 30 °C 12 months below 35 °C
<b>Storage Conditions</b>	Under dry, cool ( $\leq 30^{\circ}\text{C}$ ) conditions (open boxes must be resealed)
<b>Curing schedule</b>	20-25 min at 180°C 15-20 min at 190°C 10-15 min at 200°C 8-12 min at 210°C (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.

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

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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.

All powders can show small color differences from batch to batch, this is normal and unavoidable.

Applicators and fabricators are advised to use a single batch for parts that will be assembled together. Differences are more likely with special effect powders.

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.

<b>Application Method</b>	(depends on the product, please consult Akzo Nobel for more information), Tribo, Electrostatic
<b>Recycling</b>	Unused powder can be reclaimed using suitable equipment and recycled through the coating system, but a minimum of 70% virgin powder should be used.

### Post application

For specific advice on the suitability of post coating processes such as bending or the use of sealants, adhesives, thermal break, cleaning etc. Please consult AkzoNobel.

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.

<b>Pre-treatment</b>	Zinc Phosphate
<b>Substrate</b>	Polished steel
<b>Curing schedule</b>	10 min at 200°C (object temperature)
<b>Film Thickness</b>	60 - 70µm

### Mechanical tests

	Typical value	Method/standard
<b>Adhesion</b>	Class 0	ISO 2409 (2 mm Crosshatch)
<b>Erichsen cupping</b>	Pass 5 mm	ISO 1520
<b>Flexibility</b>	Pass 5 mm	ISO 1519
<b>Hardness</b>	Pass - no penetration to substrate	ISO 1518-1 (2000g)
<b>Impact resistance</b>	Pass 2,5 Joules reverse & direct (20 in lb)	ISO 6272-2 (d/r)

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### Chemical and durability tests

Whilst maintaining the general protective and anti-corrosive properties of powder coatings, aluminum and copper/bronze metallic finishes, when submitted to the listed tests, may rapidly show a loss of metallic aspect. 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.

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

### Environmental and durability tests

	Typical value	Method/standard
<b>Humidity</b>	Pass - no blistering or loss of gloss, 1000 h	ISO 6270-2 CH (Constant humidity)
<b>Exterior durability</b>	Suitable for outdoor use	

### Repair

<b>Surface preparation</b>	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.
<b>Application</b>	For repairs a PU (2K or 1K) liquid paint is recommended.

### Additional Information

For application on Buildings we recommend using our Interpon D series.

### 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

**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 fulfil 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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