

Technical Datasheet

Interpon 610 AF



Exterior durable polyester powder coatings with advanced fluidity

Product description

Interpon 610 AF powder coatings are designed to offer users significant improvements in their application characteristics. **Interpon 610 AF** is a range of polyester TGIC Free 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.

They can be sprayed on conventional equipment and are compatible with standard powders but give a more uniform coverage, and in particular give improved coverage in Faraday Cage areas. Powders are available in a range of colours in gloss and reduced gloss finishes and are always custom matched to the user's requirements.

Interpon 610 AF offers not only beautiful aesthetics but also a performance to match. It is ideally suited to a broad range of outdoor applications including outdoor furniture, playground equipment, signs, fencing, vending machines and general metal finishing. Can also be used for indoor application if required.

Approvals

Resistance to Fire Approval	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
Chemical Type	Polyester – TGIC Free
Density	1.2 - 1.9 g/cm ³ , depending on colour and effect
Recommended film thickness	60 - 90µm
Shelf life	24 months below 30 °C 12 months below 35 °C
Storage Conditions	Under dry, cool (≤ 30°C) conditions (open boxes must be resealed)
Curing schedule	30-40 min at 170°C 10-20 min at 180°C 8-16 min at 200°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.

<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.

Application Method

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

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.

Pre-treatment

Zinc Phosphate

Substrate

Polished steel

Curing schedule

10 min at 200°C

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	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
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, ISO 9227 500 h	

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	Suitable for outdoor use	

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.

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.

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Disclaimer

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