Interpon®
Powder Coatings

Interpon 610

Product Data Sheet

Product Description:	**Interpon 610** is a series of TGIC Free Polyester based powder coatings designed for the exterior environment, offering good light and weather resistance from a single coat finish on a variety of substrates. **Interpon 610** is available in a wide range of colours and in full gloss, satin and matt finishes. Textured and other special effects can be custom matched to the users' requirements.		
Powder properties*:	**Chemical type**	Polyester	
	Particle size	Suitable for electrostatic spray	
	Specific gravity	1.2 - 1.7 depending on colours	
	Storage	Dry cool conditions (below) 30°C	
	Shelf Life	18 months	
	Sales code	M-Series	
	Stoving Schedule	10 mins at 190°C or 8 mins at 200°C or 5 mins at 210°C (Object temperature)	
Typical Specifications	AS4506-2005		
Film properties:	Mechanical, chemical and durability tests carried out on chromate conversion coated aluminium panels. All tests are performed on panels coated with 50 - 70 microns of a gloss finish powder stoved for 10 minutes at 200°C (metal temperature). Reduced gloss finishes may show lower values for mechanical performance.		
Mechanical tests*:	**Flexibility**	(Bend Test) AS1580 402.1	Pass 6mm
	Adhesion	(2mm Crosshatch) AS1580 408.4	Classification 1 maximum
	Erichsen Cupping	BS3900-E4	Pass > 3mm
	Pencil Hardness	AS1580 405.1	F - minimum
	Reverse Impact resistance	AS3715 Section 2.5.8	Pass 2.5Nm
Chemical and durability Tests*:	**Salt Spray**	AS3715 Section 2.5.10	Pass 1000 hours - no corrosion creep more than 2mm from scribe
	Humidity Resistance	AS3715 Section 2.5.7	Pass at 500 hrs - no blistering or loss of adhesion
	Distilled water immersion	BS3900-F7 at 40°C	Pass - no blistering or loss of gloss after 240 hours
	Exterior durability (1 year Allunga exposure at 45° North)	Pass AS4506 - 2005	

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Colour stability*: Excellent for continuous exposure up to 120°C.

Pretreatment: For optimum coating performance the following pretreatments are recommended prior to the application of **Interpon 610**. The pretreatment should be used in accordance to the suppliers' recommendations.

A. Aluminium: Multistage chrome chromate or chrome phosphate
B. Galvanised Steel: Multistage zinc phosphate or chromate
C. Steel: Multistage zinc or iron phosphate

Application: **Interpon 610** powder coatings can be applied by manual or automatic electrostatic spray equipment. Unused or over-sprayed powder coating can be reclaimed and recycled through the coating system.

Additional Information: Akzo Nobel Pty Limited has a policy not to use lead or other heavy metal based pigments in our range of powder coatings.

As a result of this policy, the use of bright and deep Yellow, Orange and Red colours are not recommended for severe outdoor exposure where long term colour fastness is required.

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 customer. If for any reason a copy of the relevant health and safety data sheet is not immediately available the user should contact Akzo Nobel to obtain a copy before using the product. Minimum safety precautions in dealing with all powder coatings are as follows. All dusts are respiratory irritants. Therefore, inhalation of the dust or of the vapors resulting from the cure should be avoided. Take steps to prevent skin contact, but should contact occur, wash skin with soap and water. In case of eye contact flush immediately with clean water and seek medical advice. Dust clouds of any finely divided organic material can be ignited with an electric spark or open flame. Dust and powder should not be allowed to build up on surfaces or ledges. Dust collection equipment should be used which has provision for adequate explosion release. All equipment should be electrically earthed to prevent build up of static. Users are recommended to follow the guidelines laid down in AS3754:1990, "Safe Application of Powder Coatings by Electrostatic Spraying".

* Typical minimum specifications. Performance may vary slightly between individual products.

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