

Product Data Sheet

AkzoNobel Powder Coatings

Interpon TC

Product Description

Interpon TC 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 TC 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 user's 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 180°C or 5 mins at 200°C or 4 mins at 210°C (Object temperature)

Typical specifications

AS4506-2005

Film properties

Mechanical, chemical and durability tests carried out on zinc phosphated galvanised steel panels. All tests are performed on panels coated with 50 to 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	AS3715 Section 2.5.8	Pass 2.5Nm

Chemical 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 1000 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	Pass AS4506-2005	
Colour stability	Excellent for continuous exposure up to 120°C.	
Solvent/Chemical	Generally good resistance to acids, alkalis and oils at normal temperatures	

Pre-treatment

For optimum coating performance the following pre-treatment is recommended prior to the application of Interpon TC. The pre-treatment should be used in accordance with the supplier's recommendations.

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

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Application

Interpon TC 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

AkzoNobel 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 shades is 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 AkzoNobel 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 AkzoNobel 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".

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.

Therefore, unless we specifically agree in writing otherwise, we do not accept any liability whatsoever for the performance of the product or for any loss or damage arising out of the use of the product. All products supplied and technical advices given are subject to our standard terms and conditions of sale. You should request a copy of this document and review it carefully. The information contained in this data sheet is subject to modification from time to time in the light of experience and our policy of continuous development. It is the user's responsibility to verify that this data sheet is current prior to using the product.

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

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