Product Data Sheet

AkzoNobel Powder Coatings
Interpon 700

Product Description

Interpon 700 epoxy/polyester hybrid powder coatings offer improved colour, UV-light and heat stability compared to pure epoxies, whilst maintaining an optimum combination of decorative and protective qualities. **Interpon 700** powders exhibit excellent flow and can be applied at lower film thickness than other powder coatings under certain conditions.

Powder Properties

Chemical type	Epoxy-Polyester
Particle Size	Suitable for electrostatic spray
Specific gravity	1.2 - 1.7 depending on colours
Storage	Dry cool conditions (below 25ºC)
Shelf life	12 months
Sales code	E-Series
Stoving schedule (object temperature)	15 mins at 190ºC or 10 mins at 200ºC or 8 mins at 210ºC (Object temperature)

Film properties

Mechanical, chemical and durability tests carried out on lightweight zinc phosphated steel panels. All tests were performed on panels coated with 50 -70 microns of a gloss finish powder coating stoved for 10 minutes at 200ºC (metal temperature).
Reduced gloss finishes may show lower values for mechanical performance.

Mechanical Tests*

Flexibility	(Bend Test) AS1580 402.1	Pass 3mm
Adhesion	(2mm Crosshatch) AS1580 408.4	Classification 1 maximum
Cupping test	ISO 1520	Pass > 7mm
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 250 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 40ºC	Pass - no blistering or loss of gloss after 250 hours
Exterior durability	Some chalking and loss of gloss after several months continuous exposure, but less than pure epoxies. However the protective properties are retained.	
Colour stability	Excellent for continuous exposure up to 120ºC.	
Solvent/Chemical Resistance	Generally excellent 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 700**. 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

Application	**Interpon 700** 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 colours such as Yellows, Oranges and Reds 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 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. Unless otherwise agreed by us in writing, any contract to purchase products referred to in this brochure and any advice which we give in connection with the supply of products are subject to our standard conditions of sale. The information contained in this data sheet is liable to modification from time to time in the light of experience and our policy of continuous product development.** *** Typical minimum specifications. Performance may vary slightly between individual products.** **Brand names mentioned in this data sheet are trademarks of or are licensed to AkzoNobel**

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Interpon 700- Issue 005
Issued: July 2010