

## **Product Data Sheet**

## AkzoNobel Powder Coatings Interpon Flat Matt

 Product Description
 Interpon Flat Matt is a series of advanced durability powder coatings specifically designed to give a low gloss "anodised" appearance on architectural aluminium components. Providing outstanding weathering resistance, Interpon Flat Matt typically exceeds the requirements of AAMA2604 and surpasses the performance of all leading architectural powder coatings. Interpon Flat Matt is designed to offer significantly higher gloss retention and resistance to colour change combined with maximum film integrity to ensure long term cosmetic and functional protection. Interpon Flat Matt powder coatings are available in a selected range of colours and pearlescent effects in a low gloss matt finish.

 Powder Properties\*
 Chemical type
 Polyester

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 25°C)		
	Shelf Life	12 months		
	Gloss	Approx 5 – 15% (depending on product)		
	Sales code	Y and G -Series		
	Stoving Schedule	10 mins at 180°C (metal temperature)		
		7 mins at 190°C		
		5 mins at 200°C		
	<b>Note:</b> The stoving schedules given above will result in gloss levels of approx. 5-15% depending on product. Do not exceed 200°C for optimum performance.			
Film properties	panels coated with 60 to 8	30 microns of powder coating s	l aluminium panels. All tests are performed on toved for 5 minutes at 200°C (metal lesigned to exceed the requirements of	
Mechanical Tests*	Dry Adhesion Impact resistance	AAMA2604 Clause 7.4 AAMA2604 Clause 7.5	Pass – no removal of film Pass – no tape removal of film following 0.1"	
	Dry Film hardness	ISO2815 (Buchholz)	deformation Pass	
	Abrasion resistance	AAMA2604 Clause 7.6	Pass – abrasion coefficient >20	
Chemical Durability Tests*	Salt Spray	AAMA2604 Clause 7.8.2 ASTM B117 at 35ºC D1654	Pass at 3000 hrs – no corrosion >1-2 mm from scribe Minimum blister rating 8	
	Constant Humidity		<b>v</b>	
	Resistance	AAMA2604 Clause 7.8.1	Pass at 3000 hrs – blister formation < "few" size no 8	
	Permeability	AS3715 2002	Pass	
	Sulphur Dioxide Chemical Resistance	ISO3231 (Kesternich)	Pass - no blistering, loss of gloss or discolouration. Generally good resistance to acids, alkalis and oils at normal temperatures	
	Exterior durability	5 years Florida exposure AAMA 2604	Excellent performance, Colour change $\Delta E$ <5, gloss retention >30% Chalking - no > no.8 ASTM D4214 - D659	
	Colour stability at elevated temps		Excellent for continuous exposure up to 120°C	
Pre-treatment	Matt in accordance with receive a full multi-stage	the Interpon D Approved Appli	onents prior to the application of <b>Interpon Flat</b> cators Manual. Aluminium components must or suitable chrome <sup>6</sup> -free pre-treatment to clean	



and condition the substrate. Detailed advice should be sought from the pretreatment supplier.

Application	<ul> <li>Interpon Flat Matt powder coatings can be applied by manual or automatic electrostatic spray equipment. We recommend using voltage at 70 KV and current at 20 Microamps. To ensure the consistency of metallic appearance the powder should always be applied from a fluidised hopper Unused or over-sprayed powder coating can be reclaimed up to a maximum of 20% using suitab equipment and recycled through the coating system. Frequent, small additions of reclaim powder hopper are recommended.</li> <li>Interpon Flat Matt powder coatings give a consistent low gloss appearance when cured according the recommended cure schedule. Under or over curing the powder will result in loss of film integring the second se</li></ul>			
	and/or change in gloss.			
Additional Information	A 25-year film integrity / 15-year colour warranty is available to Interpon D Approved Applicators. For further information please contact your local Akzo Nobel sales office. Interpon Flat Matt powder coatings as supplied by AkzoNobel contain no organic solvents and can contribute toward satisfying the IEQ credits in the following Green Star® rating tools: IEQ11 Office Interiors v1.1 IEQ8 Education v1 IEQ13 Office Design v2 IEQ8 Retail Centre v1 IEQ13 Office As-Built v2 IEQ8 Healthcare v1 IEQ8 Multi Unit Residential v1 IEQ8 Industrial v1			
	Note: Products are not reviewed or certified under the Green Star® rating system. Green Star® credit requirements cover the performance of materials in aggregate, not the performance of individual products or brands. For more information on Green Star®, visit www.gbca.org.au.			
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 ploss 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 bate 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. * Typical minimum specifications. Performance may vary slightly between individual products. Bra			

AkzoNobel Coatings Ltd 686 Rosebank Road Avondale Auckland 1007 New Zealand Ph: 0800 150 527 Fax: 0800 809 679 Email: <u>salesnz@interpon.co.m</u> Web: <u>www.interpon.co.nz</u>

AkzoNobel Pty Limited 51 McIntyre Road Sunshine Victoria 3020 Australia Ph: 1800 630 516 Fax: 1800 650 786 Email: salesoz@interpon.com Web: www.interpon.com.au

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