

Product Data Sheet

AkzoNobel Powder Coatings

Interpon D3000 - Fluoromax 8W2467 Silver

Product Description

Interpon D3000 – Fluoromax is a series of hyper-durable powder coatings designed to meet the requirements of AAMA2605-13, the most demanding architectural specification in the world.

AkzoNobel's **Fluoromax** technology, which uses innovative fluorocarbon polymer chemistry, ensures the system will provide the maximum gloss and color retention in service. Designed to protect architectural aluminum components. **Interpon D3000 – Fluoromax** exploits the recognized benefits of powder coatings to give excellent cosmetic and functional protection.

Available in a selected range of colors, metallic effects, and gloss levels, **Interpon D3000 – Fluoromax** is a technically and environmental benign alternative to liquid PVF2 systems.

Powder Properties	Chemical type	Fluoropolymer	
	Appearance	Smooth	
	Gloss level (Gardner 60°)	25 - 35	
	Recommended Film thickness	2.4 – 3.2 mils.	
	Specific gravity	1.67 +/-0.05 g/cm ³	
	Coverage @ 1.0 mil	115.1 sq.ft/lb/mil	
	Storage	Maximum 75°F	
	Shelf life	6 months	
		Curing schedule (at object temperature)	43-85 minutes at 360° F 26-60 minutes at 375° F 13-40 minutes at 392° F 10-18 minutes at 410°F
Mechanical Tests	Dry Adhesion	AAMA2605-13 8.4.1	Pass – no removal of film
	Impact Resistance	AAMA2605-13 8.5	Pass – no tape removal of film to substrate following 0.1" deformation
	Dry Film Hardness	AAMA2605-13 8.3.2 D3363	Pass F – no rupture of film
	Abrasion Resistance	AAMA2605-13 8.6 ASTM D968	Pass – abrasion coefficient value 40 min
Environmental and Durability Tests	Cyclic Corrosion Testing	AAMA2605-13 8.8.2 ASTM G85 Annex A5	Pass at 2,000 hours – no corrosion more than 1/32" – 1/16" from scribe, minimum blister rating 8
	Permeability	AS3715 2002	Pass
	Sulphur Dioxide	ISO3231(Kesternich)	Pass – no blistering, loss of gloss or discoloration

Constant Humidity Resistance	AAMA2605-13 8.8.1 ASTM D2247/4585 ASTM D714	Pass at 4,000 hours – blister formation less than “few” size no. 8
Chemical Resistance	AAMA2605-13 8.7	Generally good resistance to acids, alkalis, and oils at normal temperature
Exterior Durability	AAMA2605-13 8.9 ASTM D2244 ASTM D4214 (D658) D 523	Excellent performance after 10 yrs Florida Exposure; Color Change DE <5 (Hunter); Gloss retention >50%; Chalking not in excess of #8 for colors, #6 for whites
Color Stability		Good at Elevated Temperatures
Test Conditions	Testing has been determined under laboratory conditions using the following application properties and is for guidance only.	
Substrate	Aluminum	
Pretreatment	Chromate	
Film thickness	2.4 – 3.2 mils	
Cure schedule	15 minutes at 400°F	
	Actual film performance will depend on the individual circumstances in which the product is used.	
Pre-treatment	For maximum protection, it is essential to pretreat components prior to the application of Interpon D3000 – Fluoromax . Aluminum components must receive a full multi-stage chromate conversion coating or suitable chrome-free pretreatment to clean and condition the substrate. Detailed advice should be sought from the pretreatment supplier.	
Application	<p>Interpon D3000 – Fluoromax can be applied by manual or automatic electrostatic spray equipment. It is recommended that for consistent application and appearance product be fluidized during application. For solid shades, unused powder can be reclaimed using suitable equipment and recycled through the coating system. For mixed colors and certain special finishes, advice must be sought from the manufacturer as to the suitability, or otherwise, of the product for recycling. For all mixed color/special effect systems, advice must be sought as to the correct mixing ratio for virgin/reclaim powder. For application of the D-Series Architectural Products, the required Dry Film Thickness (DFT) is 2.4 – 4.5 mils, with no measurements below 1.8 mils.</p> <p>Interpon D3000 – Fluoromax is based on fluorocarbon polymer chemistry, hence it will not charge through conventional PTFE based tribo systems. Please contact AkzoNobel technical department or consult with equipment supplier for alternatives.</p>	
Additional Information		
Key Product Attributes		
Safety Precautions	Please consult the Safety Datasheet (SDS).	
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 fulfil 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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