

Product Datasheet



BU Powder Coatings

AkzoNobel
Tomorrow's Answers Today

Interpon D3000 Fluoromax

Product Description

Interpon D3000 – Fluoromax is a series of hyper-durable powder coatings designed to meet the of AAMA-2605-05, 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 colour retention in service. Designed to protect architectural aluminium components **Interpon D3000 – Fluoromax** exploits the recognised benefits of powder coatings to give excellent cosmetic and functional protection.

Available in a wide range of colours, metallic effects in the gloss range 30 – 40% **Interpon D3000 – Fluoromax** is a technically and environmentally benign alternative to liquid PVH2 systems.

Interpon D3000 – Fluoromax conforms to Qualicoat Class 3 and EN12206 (high durability systems)

Powder Properties

Particle Size	Suitable for electrostatic spray
Specific gravity	1.2 – 1.7 g/cm ³ depending on colour
Storage	Dry cool conditions below 25°C
Shelf life	6 months
Sales Code	8 series
Stoving schedule	20 – 35 minutes at 190°C
(object temperature)	15 – 25 minutes at 200°C

Test Conditions

The results shown below are based on mechanical and chemical tests which (unless otherwise indicated) have been carried out under laboratory conditions and are given for guidance only. Actual product performance will depend upon the circumstances under which the product is used.

Substrate	Aluminium
Pretreatment	Chromate
Film Thickness	50 – 80 microns
Stoving	20 minutes at 200°C (metal temperature)

Mechanical Tests

Dry Adhesion	AAMA2605-05 7.4	Pass – no removal of film
Impact Resistance	AAMA2605-05 7.5	Pass - no tape removal of film to substrate following 0.1" deformation
Dry Film Hardness	ISO2815 (Buchholz)	Pass
Abrasion Resistance	AAMA2605-05 7.6	Pass – abrasion coefficient >20

Chemical and Durability Tests

Salt Spray	AAMA2605-05 7.8.2 ASTM B117 at 35°C	Pass at 4000 hours - no corrosion more than 1.0 – 2.0mm from scribe Minimum blister rating 8
Constant Humidity Resistance	AAMA2605-05 7.8.1 ASTM D2247 ASTM D714	Pass at 4000 hours - blister formation less than "few" size no. 8
Permeability	AS3715 2002	Pass
Sulphur Dioxide	ISO3231 (Kesternich)	Pass - no blistering, loss of gloss or discolouration
Chemical Resistance	Generally good resistance to acids, alkalis and oils at normal temperature	

Interpon D3000 - Fluoromax

Exterior Durability	10 years Florida Exposure AAMA2605-05	Excellent performance colour change Delta E <5 Gloss retention >50%. Chalking - none in excess of No.8 for colours, No. 6 for whites, ASTM D4214:D658
----------------------------	--	---

Colour Stability at elevated temperatures Good

Pretreatment For maximum protection it is essential to pre-treat components prior to the application of **Interpon D3000 Fluoromax**. Aluminium components must receive a full multi-stage chromate conversion coating or suitable chrome-free pre-treatment to clean and condition the substrate. Detailed advice should be sought from the pre-treatment supplier.

Application **Interpon D3000 - Fluoromax** can be applied by manual or automatic electrostatic spray equipment. For solid shades, unused powder can be reclaimed using suitable equipment and recycled through the coating system. For mixed colours 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 colour/special effect systems, advice must be sought as to the correct mixing ratio for virgin/reclaim powder.

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.

Interpon D3000 – Fluoromax is slightly incompatible with other powder coatings. It is therefore recommended to thoroughly clean the entire line prior to and after the powder application.

Safety Precautions When using do not eat, drink or smoke. Do not breathe the dust. In case of insufficient ventilation wear suitable respiratory equipment.
For further information please refer to the specific product Material Safety Data Sheet (MSDS PC220)

FOR PROFESSIONAL USE ONLY

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 advice 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.

Brand names mentioned in this data sheet are trademarks of or are licensed to AkzoNobel