

Interpon D3000 - Fluoromax

The information given in this datasheet refers to the product a b c d **D3000 Fluoromax** and should not be confused as referring to other products in the a b c d **D** range.

Product Description:

a b c d **D3000 - Fluoromax** is a series of hyper-durable powder coatings designed to meet the requirements of AAMA2605-02, the most demanding architectural specification in the world.

Akzo Nobel'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, a b c d **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 a b c d **D3000 - Fluoromax** is a technically and environmentally benign alternative to liquid PVF2 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 75°F
Shelf life	6 months
Sales Code	8 series
Stoving schedule	40-45 min at 360°F 25-40 min at 375°F 13-20 min at 392°F 10-18 min at 410°F (object temperature)

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	Aluminum
Pretreatment	Chromate
Film Thickness	2.4 - 3.2mil
Stoving	15 minutes at 400°F (metal temperature)

Mechanical Tests:

Dry Adhesion	AAMA2605-02 7.4	Pass – no removal of film
Impact Resistance	AAMA2605-02 7.5	Pass - no tape removal of film to substrate following 0.1" deformation
Dry Film Hardness	ISO2815 (Buchholz)	Pass
Abrasion Resistance	AAMA2605-02 7.6	Pass – abrasion coefficient >20

Chemical and Durability Tests:

Salt Spray	AAMA2605-02 7.8.2 ASTM B117 at 95°F	Pass at 4000 hours - no corrosion more than 1/32" – 1/16" from scribe Minimum blister rating 8
Constant Humidity Resistance	AAMA2605-02 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 discoloration
Chemical Resistance		Generally good resistance To acids, alkalis and oils at At normal temperature

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Exterior Durability	10 years Florida Exposure AAMA2605-02	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
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Color Stability at elevated temperatures	Good
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Pretreatment: For maximum protection it is essential to pre-treat components prior to the application of a b c d **D3000 - Fluoromax**. Aluminum 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: a b c d **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 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.
a b c d **D3000 - Fluoromax** is based on fluorocarbon polymer chemistry hence it will not charge through conventional PTFE based tribo systems. Please contact Akzo Nobel technical department or consult with equipment supplier for alternatives.

Safety Precautions: When using do not eat, drink or smoke. Do not breathe the dust. In case of insufficient ventilation wear suitable respiratory equipment.

This product can release an irritating fume on cure. Ensure adequate ventilation/extraction when curing this product to minimize fuming. Hydrogen fluoride and carbonyl fluoride may be evolved at or above 446°F with larger amounts at higher temperatures, overheating or burning

Disclaimer: The information given in this sheet is not intended to be exhaustive and any person using the product for any purpose other than that specifically recommended in this 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. Whilst we endeavour to ensure that all advice we give about the product (whether in this sheet or otherwise) is correct we have no control over either the quality or condition of the substrate or the many factors affecting the use and application of the product. Therefore, unless we specifically agree in writing to do so, we do not accept any liability whatsoever or howsoever arising for the performance of the product or for any loss or damage (other than death or personal injury resulting from our negligence) arising out of the use of the product. The information contained in this sheet is liable to modification from time to time in the light of experience and our policy of continuous product development.

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