Product Datasheet

BU Powder Coatings
Interpon D3000 Fluoromax®

AkzoNobel
Tomorrow's Answers Today

Product Description

Interpon D3000 Fluoromax® is a series of hyper-durable powder coatings designed to meet the requirements of AAMA2605-05, the most demanding architectural specification in the world. Akzo Nobel's Fluoromax® technology uses innovative fluorocarbon polymer chemistry that is designed to provide maximum gloss and colour retention in service. **Interpon D3000 Fluoromax**® is also designed to provide excellent cosmetic and functional protection whilst exploiting the recognised benefits of powder coatings. **Interpon D3000 Fluoromax**® is a technically and environmentally benign alternative to liquid PVF2 systems. **Interpon D3000 Fluoromax**® is available in a selected range of colours and pearlescent effects and in a subtle low sheen finish.

Powder properties*

Particle size	Suitable for electrostatic spray
Specific gravity	1.2-1.7 g/cm³ depending on colour
Storage	Dry cool conditions below 25℃
Shelf life	6 months
Sales Code	8 series
Stoving schedule	30 - 40 minutes at 190℃ or 20 - 30 minutes at 200℃ or 15 - 25 minutes at 210℃ (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	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 from substrate following 0.1" deformation
Dry Film Hardness	ISO2815 (Buchholz)	Pass
Abrasion Resistance	AAMA2605-05 7.6	Pass – abrasion coefficient >20

Chemical Durability Tests*

Salt Spray	AAMA2605-05 7.8.2	Pass at 4000 hours - ASTM B117 at 35°C no corrosion more than 1.0 – 2.0mm from scribe Minimum blister rating 8
Constant Humidity Resistance	AAMA2605-05 7.8.1 ASTM D2247	Pass at 4000 hours - blister formation less than "few" ASTM D714 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 temperatures	

AkzoNobel Coatings Ltd
686 Rosebank Road
Avondale Auckland 1007
New Zealand
Ph: 0800 801 342
Fax: 0800 809 679
Email: salesnz@interpon.com
Web: www.interpon.co.nz

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

Interpon powder coatings
EVERY COLOR IS GREEN

Chemical and Durability Tests*	**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
	Colour Stability at elevated temperatures		Good

Pre-treatment

For maximum protection it is essential to pre-treat components prior to the application of **Interpon D3000 Fluoromax®** in accordance with the Interpon D Approved Applicator Manual. 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 Akzo Nobel as to the suitability or otherwise of the product for recycling.

Interpon D3000 Fluoromax® is slightly incompatible with other powder coatings. It is therefore recommended to thoroughly clean the entire coating line prior to and after the powder application. **Interpon D3000 Fluoromax®** releases a blocking agent during the curing process. This blocking agent will cause slight fuming and requires increased levels of oven venting.

Interpon D3000 Fluoromax® is based on fluorocarbon polymer chemistry hence it will not charge through conventional PTFE based tribo systems. Please contact Akzo Nobel or consult with your equipment supplier for alternatives.

Additional Information

A 20-year product performance warranty is available to **Interpon D** Approved Applicators. For further information please contact your local Akzo Nobel sales office.

Interpon D3000 powder coatings as supplied by AkzoNobel contain no organic solvents and are significantly below the VOC limits for painted surfaces as specified in the Credit No IEQ11 Green Star – Office Interiors v1.1 and IEQ13 (Volatile Organic Compounds) for the Green Star – Office Design v3 & Office As-Built v3.

Interpon D3000 powder coatings can qualify for two (2) green star credit points as outlined in IEQ11.

Interpon D3000 powder coatings can qualify for one (1) green star credit point as outlined in IEQ13.

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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) available on request from your local Akzo Nobel sales office.

Disclaimer

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.

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AkzoNobel Coatings Ltd
686 Rosebank Road
Avondale Auckland 1007
New Zealand
Ph: 0800 801 342
Fax: 0800 809 679
Email: salesnz@interpon.com
Web: www.interpon.co.nz

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

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