# Interpon D3000 – Fluoromax

**Product Description:**

**Interpon 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 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 selected range of colours, metallic effects and gloss levels **Interpon D3000 - Fluoromax** is a technically and environmentally benign alternative to liquid PVF2 systems.

**Powder Properties:**

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| **Particle size** | Suitable for electrostatic spray |
| **Specific gravity** | 1.2-1.7 g/cm³ depending on colour |
| **Storage** | Dry cool conditions below 25°C |
| **Shelf life** | 6 months |
| **Sales Code** | 8 series |
| **Stoving schedule** | 20 - 40 minutes at 190°C<br>12 - 20 minutes at 200°C<br>10 - 18 minutes at 210°C<br>(object temperature) |
| **Recommended Film Thickness** | 50-75 microns |
| ***Standard Gloss Level** | 35 ± 5 on a 60° head |

***please refer to individual product datasheet***

**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.

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| **Substrate** | Aluminium |
| **Pretreatment** | Chromate |
| **Film Thickness** | 60 – 80 microns |
| **Stoving schedule** | 12 minutes at 200°C (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:**

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|---|---|---|
| **Salt Spray** | AAMA2605-02 7.8.2<br>ASTM B117 at 35°C | Pass at 4000 hours -<br>no corrosion more than<br>1.0 – 2.0mm from scribe<br>Minimum blister rating 8 |
| **Constant Humidity Resistance** | AAMA2605-02 7.8.1<br>ASTM D2247<br>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 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 |
| | **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 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.
For further information please refer to the specific product Material Safety Data Sheet (MSDS PC220)



*Akzo Nobel Powder Coatings Ltd., Worldwide Powder Group, Stoneygate Lane, Felling, Tyne & Wear. NE10 0JY UK*
*Tel: +44 (0) 191 469 6111 Fax: +44 (0) 191 438 5431* www.interpon.com