

Product Datasheet



BU Powder Coatings Interpon D2010

AkzoNobel
Tomorrow's Answers Today

Product Description

Interpon D2010 is a series of advanced durability powder coatings specifically formulated for use on architectural aluminium extrusions and components. Providing new levels of weathering resistance, **Interpon D2010** is designed to meet the requirements of AAMA2604-05. **Interpon D2010** is designed to offer significantly higher gloss retention and resistance to colour change combined with maximum film integrity to ensure long term cosmetic and functional protection. **Interpon D2010** powder coatings are available in a selected range of colours and pearlescent effects in gloss, satin or matt finishes.

Powder properties*

Chemical type	Polyester
Particle size	Suitable for electrostatic spray
Specific gravity	1.2 - 1.7 depending on colours
Storage	Dry cool conditions (below 30°C)
Shelf Life	18 months
Sales code	Y-Series
Stoving Schedule	15 mins at 190°C (Object temperature) 10 mins at 200°C 8 mins at 210°C

Film properties

Mechanical and chemical tests carried out on Chromated aluminium panels. All tests are performed on panels coated with 60 to 80 microns of a gloss finish powder coating stoved for 10 minutes at 200°C (metal temperature). **Interpon D2010** powder coatings are designed to meet the requirements of AAMA2604-2005.

Mechanical tests*

Dry Adhesion	AAMA2604 Clause 7.4	Pass - no removal of film
Impact resistance	AAMA2604 Clause 7.5	Pass - no tape removal of film from substrate following 0.1" deformation
Dry Film hardness	ISO2815 (Buchholz)	Pass
Abrasion resistance	AAMA2604 Clause 7.6	Pass - abrasion co-efficient > 20

Chemical Durability Tests*

Salt Spray	AAMA2604 Clause 7.8.2 ASTM B117 at 35°C D1654	Pass at 3000 hrs - no corrosion more than 1.0-2.0 mm from scribe Minimum blister rating 8
Constant Humidity Resistance	AAMA2604 Clause 7.8.1 ASTM D2247, ASTM D714	Pass at 3000 hrs – blister formation less than "few" size no 8.
Permeability	AS3715 Section 2.5.11	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	
Exterior durability	5 years Florida exposure AAMA 2604	Excellent performance, Colour change Delta E less than 5, gloss retention >30%. Chalking –none in excess of no.8 ASTM D4214 - D659.
Colour stability at elevated temperatures	Excellent for continuous exposure up to 120°C.	

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Interpon
powder coatings
EVERY COLOR IS GREEN

Pre-treatment

For optimum coating performance the following pre-treatment is recommended prior to the application of **Interpon D2010**. The pre-treatment should be used in accordance with the supplier's recommendations.

A. Aluminium	Multistage chrome chromate or chrome phosphate
B. Galvanised Steel	Multistage zinc phosphate or chromate
C. Steel	Multistage zinc or iron phosphate

Application

Interpon D2010 powder coatings can be applied by manual or automatic electrostatic spray equipment. Unused or over-sprayed powder coating can be reclaimed and recycled through the coating system.

Additional Information

Product performance warranties are available with the **Interpon D2010** range through accredited applicators. For further information on the available warranties and the applicable terms and conditions, please contact your local AkzoNobel sales office.

AkzoNobel Pty Limited has a policy not to use lead or other heavy metal based pigments in our range of powder coatings. As a result of this policy, the use of bright and deep colours such as Yellows, Oranges and Reds are not recommended for severe outdoor exposure where long-term colour fastness is required. These products can be sourced from the Interpon TC General Industrial range.

Interpon D2010 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 D2010 powder coatings can qualify for two (2) green star credit points as outlined in IEQ11.

Interpon D2010 powder coatings can qualify for one (1) green star credit point as outlined in IEQ13.



Safety Precautions

This product is intended for use only by professional applicators in industrial environments and should not be used without reference to the relevant health and safety data sheet, which AkzoNobel has provided to its customer. If for any reason a copy of the relevant health and safety data sheet is not immediately available the user should contact AkzoNobel to obtain a copy before using the product. Minimum safety precautions in dealing with all powder coatings are as follows. All dusts are respiratory irritants. Therefore, inhalation of the dust or of the vapors resulting from the cure should be avoided. Take steps to prevent skin contact, but should contact occur, wash skin with soap and water. In case of eye contact flush immediately with clean water and seek medical advice. Dust clouds of any finely divided organic material can be ignited with an electric spark or open flame. Dust and powder should not be allowed to build up on surfaces or ledges. Dust collection equipment should be used which has provision for adequate explosion release. All equipment should be electrically earthed to prevent build up of static. Users are recommended to follow the guidelines laid down in AS3754:1990, "Safe Application of Powder Coatings by Electrostatic Spraying".

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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