

Product Datasheet



BU Powder Coatings Interpon D1010 Premium

AkzoNobel
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Product Description

Interpon D1010 Premium is a series of high durability powder coatings specifically formulated for use on architectural aluminium extrusions and components. Providing new levels of weathering resistance, **Interpon D1010 Premium** 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 D1010 Premium** 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 | G-Series |
| Stoving Schedule | 10 mins at 190°C or 8 mins at 200°C or 5 mins at 210°C (Object temperature) |

Film properties

Mechanical, chemical and durability tests carried out on chromate conversion coated aluminium panels. All tests were performed on panels coated with 50 -70 microns of a gloss finish powder coating stoved for 10 minutes at 200°C (metal temperature). Reduced gloss finishes may show lower values for mechanical performance.

Mechanical tests*

| | | |
|--------------------------|------------------------|---|
| Dry Adhesion | EN ISO 2409 | Pass, no removal of film |
| Impact resistance | EN ISO 6272 | Pass- 2.5 Nm, no removal of film following tape pull test |
| Indentation | EN ISO 2815 (Buchholz) | Pass |
| Cupping Test | EN ISO 1520 | Pass – 5mm deformation |
| Bend Test | EN ISO 1519 | Pass – 5mm mandrel |

Chemical Durability tests

| | | |
|----------------------------|--|---|
| Salt Spray | EN ISO 9227 | Pass 1000 hours - no corrosion creep more than 2mm from scribe |
| Humidity Resistance | DIN 50017 | Pass at 1000 hrs - blister formation less than 2 (S2) |
| Boiling Water | AS3715 Section 2.5.11 | Pass (pressure cooker) |
| Sulphur Dioxide | EN ISO 3231 (Kesternich) | Pass - no blistering, loss of gloss or discolouration. |
| Mortar Resistance | ASTM D3260 | Pass |
| Exterior durability | 3 years Florida exposure - Excellent performance, colour change (Delta E) less than prescribed values, gloss retention >30%. | |
| Colour stability | Excellent for continuous exposure up to 120°C. | |

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Pre-treatment

For optimum coating performance the following pre-treatment is recommended prior to the application of **Interpon D1010 Premium**. 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 D1010 Premium 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

A 10 year product performance warranty is available with the **Interpon D1010 Premium** 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 D1010 Premium 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 D1010 Premium powder coatings can qualify for two (2) green star credit points as outlined in IEQ11.

Interpon D1010 Premium 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.