

Product Datasheet



BU Powder Coatings Interpon D1000 STF

AkzoNobel
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Product Description Interpon D1000 STF is a series of TGIC Free Polyester based powder coatings expressly formulated as a basis for the heat-transfer decoration process. The product is designed for the exterior environment offering excellent long term light and weather resistance from a single coat finish on a variety of substrates. **Interpon D1000 STF** powder coatings are available in a wide range of colours in a matt textured finish.

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|---------------------------|-------------------------|--|
| Powder properties* | Chemical type | Polyester |
| | Particle size | Suitable for electrostatic spray |
| | Specific gravity | 1.2 - 1.4 depending on colour |
| | Storage | Dry cool conditions (below 30°C) |
| | Shelf Life | 18 months |
| | Sales code | G-Series |
| | Stoving Schedule | 8 mins at 190°C or 5 mins at 200°C or 4 mins at 210°C (Object temperature) |

Typical specifications AS3715, WANZ, AS4506, BS6496, BS6497, AAMA2603

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).

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|--------------------------|------------------------|-------------------------------|--------------------------|
| Mechanical tests* | Flexibility | (Bend Test) AS1580 402.1 | Pass 6mm |
| | Adhesion | (2mm Crosshatch) AS1580 408.4 | Classification 1 maximum |
| | Cupping test | ISO 1520 | Pass > 3mm |
| | Pencil Hardness | AS1580 405.1 | F - minimum |
| | Reverse Impact | AS3715 Section 2.5.8 | Pass 2.5Nm |

| | | | |
|----------------------------------|----------------------------------|---|---|
| Chemical Durability tests | Salt Spray | AS3715 Section 2.5.10 | Pass 1000 hours - no corrosion creep more than 2mm from scribe |
| | Humidity Resistance | AS3715 Section 2.5.7 | Pass at 1000 hrs - no blistering or loss of adhesion |
| | Distilled water immersion | BS3900-F7 at 40°C | Pass - no blistering or loss of gloss after 240 hours |
| | Exterior durability | Excellent - pass AS3715 after 12 months continuous exposure with no film breakdown or reduction in protective properties. | |
| | Colour stability | 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 D1000 STF**. The pre-treatment should be used in accordance with the supplier's recommendations.

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|---------------------|--|
| 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 D1000 STF 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.

Interpon D1000 STF powder coatings have a low pigment loading and are therefore semi-transparent. The appearance of the coating (especially colour) can vary with film thickness, substrate type and pre-treatment. Due to the high resin content **Interpon D1000 STF** powder coatings can be difficult to apply in high humidity situations. Optimal application conditions are achieved when relative humidity is less than 80%.

Additional Information

Product performance warranties are available with the **Interpon D1000 STF** 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.

Interpon D1000 STF powder coatings as supplied by AkzoNobel contain no organic solvents and can contribute toward satisfying the IEQ credits in the following Green Star® rating tools:

| | |
|--------------------------------|-----------------------|
| IEQ11 Office Interiors v1.1 | IEQ8 Education v1 |
| IEQ13 Office Design v2 | IEQ8 Retail Centre v1 |
| IEQ13 Office As-Built v2 | IEQ8 Healthcare v1 |
| IEQ8 Multi Unit Residential v1 | IEQ8 Industrial v1 |

Note: Products are not reviewed or certified under the Green Star® rating system. Green Star® credit requirements cover the performance of materials in aggregate, not the performance of individual products or brands. For more information on Green Star®, visit www.gbca.org.au.



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.