

# Product Datasheet



## BU Powder Coatings Interpon D1000 Excel™

**AkzoNobel**  
Tomorrow's Answers Today

### Product Description

**Interpon D1000 Excel™** is a new generation TGIC Free Polyester powder coating formulated on AkzoNobel proprietary resin technology. **Interpon D1000 Excel™** is designed to produce a factory finish over correctly pre-treated hot dipped galvanised (HDG) steel fabricated articles, alloy castings as well as extruded aluminium. **Interpon D1000 Excel™** is especially suitable for porous substrates and hence normally eliminates the need to degas prior to powder coating. Typical end uses include fencing and gates, lighting columns, pedestrian guardrails, traffic signposts, large base posts and other galvanised steel street furniture and fittings.

**Interpon D1000 Excel™** exhibits a tougher cured film which provides superior damage resistance to packaging materials. **Interpon D1000 Excel™** incorporates AkzoNobel patented Particle Management Technology providing outstanding powder application and enhanced recess penetration. **Interpon D1000 Excel™** is designed to give excellent long term exterior durability and colour retention and is available in a limited range of colours and in gloss, satin and matt finishes.

### Powder properties\*

<b>Chemical type</b>	Polyester
<b>Particle size</b>	Suitable for electrostatic spray
<b>Specific gravity</b>	1.2 - 1.7 depending on colours
<b>Storage</b>	Dry cool conditions (below 30°C)
<b>Shelf Life</b>	18 months
<b>Sales code</b>	G-Series
<b>Stoving Schedule</b>	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 zinc phosphated galvanised steel 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\*

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

### Chemical Durability tests

<b>Salt Spray</b>	AS3715 Section 2.5.10	Pass 1000 hours - no corrosion creep more than 2mm from scribe
<b>Humidity Resistance</b>	AS3715 Section 2.5.7	Pass at 1000 hrs - no blistering or loss of adhesion
<b>Distilled water immersion</b>	BS3900-F7 at 40°C	Pass - no blistering or loss of gloss after 240 hours
<b>Exterior durability</b>	Excellent - pass AS3715 after 12 months continuous exposure with no film breakdown or reduction in protective properties.	
<b>Colour stability</b>	Excellent for continuous exposure up to 120°C.	

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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  
Email: salesoz@interpon.com  
Web: www.interpon.com.au

**Interpon**  
powder coatings  
**EVERY COLOR IS GREEN**

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**Pre-treatment**

For optimum coating performance, galvanised steel and aluminium require a multistage pre-treatment including either zinc phosphate or chromate. For particularly porous substrates, degassing at 5-10°C in excess of cure temperature prior to powder application is recommended.

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**Application**

**Interpon D1000 Excel™** 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.

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**Additional Information**

Product performance warranties are available with the **Interpon D1000 Excel™** 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 Excel™** 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 D1000 Excel™** powder coatings can qualify for two (2) green star credit points as outlined in IEQ11.

**Interpon D1000 Excel™** powder coatings can qualify for one (1) green star credit point as outlined in IEQ13.



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**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".

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**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.