

Product Datasheet



AkzoNobel
Tomorrow's Answers Today

BU Powder Coatings Interpon D1100 Gloss (90)

The information given in this datasheet is generic for the range **Interpon D1100 Gloss**. Specific products within the range can vary from the generic. For these products individual product datasheet are available

Product Description

Interpon D1100 Gloss (90) is a range of powder coatings intended for use on architectural aluminium and galvanized steel. Available in a wide range of colours on demand, **Interpon D1100 Gloss (90)** has been specifically formulated without the use of TGIC. As part of the **Interpon D** series of architectural powders, **Interpon D1100 Gloss (90)** gives excellent exterior durability and colour retention and conforms to the requirements of all the major European architectural finishing standards. All **Interpon D1100 Gloss (90)** powders are lead-free and meet the requirements of Qualicoat Class 1, EN 12206, EN 13438 (and older standards BS6496 & BS6497:1984). **Interpon D1100 Gloss (90)** is a range that has been specifically formulated as a more sustainable product than other **Interpon D** series, as curing uses less energy.

Powder Properties

Chemical type	Polyester
Gloss (60°) ISO2813	90±5
Particle Size	Suitable for tribo and corona application
Density	1.2 – 1.7 g/cm ³ depending on colour
Storage	Dry, cool conditions
Shelf life	18 months below 30°C peak temperature 12 months below 35°C peak temperature
Stoving schedule (object temperature)	20-40 minutes at 150°C 10-30 minutes at 160°C 8-20 minutes at 170°C Curing at temperatures >180C can cause excessive yellowing

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.

Substrate	Aluminium (0.5-0.8mm Al Mg1)
Pretreatment	Chromate
Film Thickness	60-80microns
Stoving	15 minutes at 160°C (object temperature)

Mechanical Tests

Adhesion	ISO2409 (2mm Crosshatch)	Gt 0
Erichsen Cupping	ISO1520	Pass>5mm
Hardness	ISO2815	Minimum 80
Impact	ASTM D2794 and	Pass 2.5 joules reverse & direct or 20 inch pounds
Flexibility	ISO1519	Pass 5mm

Corrosion Tests

Acetic Acid Salt	ISO9227	Pass at 1000 hours <16 mm ² corrosion/10cm
Constant Humidity	ISO6270	Pass at 1000 hours - no blistering Creep <1mm from scribe
Sulphur Dioxide	ISO 3231	Pass 30 cycles – no blistering, creep <1mm from scribe
Permeability	Pressure Cooker EN12206-1:2004 Part 5.10	Pass – no defects after 1 hour (2 hours boiling water)
Chemical Resistance	Generally good resistance to acid, alkalis and oils at normal temperatures	
Mortar Resistance	EN12206-1:2004 Part 5.9	No effect after 24 hours

Interpon D1100 Gloss (90)

Weathering Tests	Exterior Durability	ISO2810 (Florida 12 months 5°south)	≥50% Gloss retention. Colour retention in accordance with GSB or Q ualicoat Chalking – none in excess of minimum in ASTM D659:1980
	Accelerated Weathering Test	Suntest Original – Hanau-Quartzlampen ISO11341 QUV B313	≥50% Gloss retention after 1000 hours ≥50% Gloss retention after 300 hours
	Light Fastness	DIN54004	Minimum 7

Pretreatment

For maximum protection it is essential to pretreat architectural components prior to the application of **Interpon D1100 Gloss (90)**. Aluminium components should receive a full multi-stage chromate conversion coating, suitable chrome-free pre-treatment or suitable pre-anodising to clean and condition the substrate. Detailed advice should be sought from the pre-treatment supplier.

Galvanised steel requires surface preparation by either multi-stage pretreatment using either zinc phosphate or chromate conversion or controlled sweep blasting. Depending on the type of galvanizing, degassing or use of anti-bubbling additives may be required – follow the procedural advice of the pre-treatment supplier.

Interpon D1100 Gloss (90) products may also be used on cast or mild steel.

For outdoor use **Interpon PZ** anti-corrosive primer over a correctly prepared substrate is recommended.

Application

Interpon D1100 Gloss (90) effect powders can be applied by manual or automatic electrostatic spray or tribo charging equipment. For solid shades unused powder can be reclaimed using suitable equipment and recycled through the coating system. Detailed information and specific advice for special finishes is available upon request. Certain colours should be applied at higher film thickness to ensure coverage.

Post Application

For specific advice on the suitability of post coating processes such as bending or the use of sealants, adhesives, thermal break, cleaning, etc. please consult AkzoNobel

Safety Precautions

Please consult the Material Safety Datasheet (MSDS)

FOR PROFESSIONAL USE ONLY

IMPORTANT NOTE The information in this data sheet is not intended to be exhaustive and is based on the present state of our knowledge and on current laws: any person using the product for any purpose other than that specifically recommended in the technical data sheet without first obtaining written confirmation from us as to the suitability of the product for the intended purpose does so at his own risk. It is always the responsibility of the user to take all necessary steps to fulfill the demands set out in the local rules and legislation. Always read the Material Data Sheet and the Technical Data Sheet for this product if available. All advice we give or any statement made about the product by us (whether in this data sheet or otherwise) is correct to the best of our knowledge but we have no control over the quality or the condition of the substrate or the many factors affecting the use and application of the product. Therefore, unless we specifically agree in writing otherwise, we do not accept any liability whatsoever for the performance of the product or for any loss or damage arising out of the use of the product. All products supplied and technical advice given are subject to our standard terms and conditions of sale. You should request a copy of this document and review it carefully. The information contained in this data sheet is subject to modification from time to time in the light of experience and our policy of continuous development. It is the user's responsibility to verify that this data sheet is current prior to using the product.

Brand names mentioned in this data sheet are trademarks of or are licensed to AkzoNobel.