

Product Datasheet

1000 Series



BU Powder Coatings Interpon D1200 STF

AkzoNobel
Tomorrow's Answers Today

The information given in this datasheet is generic for the range **Interpon D1200 STF**. Specific products within the range can vary from the generic. For these products individual product datasheets are available

Product Description

Interpon D1200 STF is a range of powder coatings expressly formulated as a base for successive heat-transfer decoration. Smooth and fine structures are available.

Interpon D1200 STF has been specifically formulated without the use of TGIC.

All **Interpon D1200 STF** powders are formulated to meet fully the requirements of EN12206 (formerly BS6496), EN13438 (formerly BS6497), Qualicoat Class 1 and GSB

Powder Properties

Chemical type	Reinforced polyurethane
Particle Size	Suitable for electrostatic and tribostatic application
Gloss	25 ± 5
Specific gravity	1.2 – 1.4 g/cm ³ depending on colour
Storage	Dry cool conditions
Shelf life	24 months below 30°C peak temperature
Transport	During and delivery period the powder must not be submitted to temperature higher than 35°C, even for short periods of time
Sales Code	U-series
Stoving schedule (object temperature)	25 – 50 minutes at 190°C 20 – 40 minutes at 200°C

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
Pretreatment	Chromate
Film Thickness	70 – 80 microns
Stoving	20 minutes at 200°C (object temperature)

Mechanical Tests

Adhesion	ISO2409 (2mm Crosshatch)	Gt 0
Erichsen Cupping	ISO1520	Pass >7mm
Hardness	ISO2815	Pass, no penetration to substrate
Impact	ASTM 2794	Pass 2.5 joules direct and reverse
Flexibility	ISO1519 (Conical Mandrel)	Pass 3mm

Chemical Tests

Salt Spray	ISO7253	Pass at 1000 hours - no corrosion area more than 2mm from scribe.
Acetic Acid Salt Spray	ISO9227	Pass at 1000 hours - <16mm ² corrosion/10cm
Cyclic Humidity	DIN50017	Pass at 1000 hours - no blistering or loss of gloss
Sulphur Dioxide	ISO3231 (Kesternich)	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 dilute acids, alkalis and oils at normal temperatures	

Interpon
powder coatings
EVERY COLOR IS GREEN

Interpon D1200 STF

Weathering Tests	Exterior Durability	ISO2810 (Florida 12 months 5° South)	≥50%Gloss retention. Colour retention in accordance with GSB or Qualicoat. Chalking - none in excess of minimum in ASTM D659:1980
	Colour Stability at Elevated Temperatures Accelerated Weathering Test	Suntest Original- Hanau-Quartzlampen DIN53231	Good 50% Gloss retention after 1000 hours

Pretreatment For maximum protection it is essential to pretreat architectural components prior to the application of **Interpon D1200 STF**. Aluminium components should receive a full multi-stage chromate conversion coating or a suitable chrome-free pretreatment to clean and condition the substrate. Detailed advice should be sought from the pretreatment supplier.
Galvanised steel requires surface preparation by either multi-stage pretreatment using either zinc phosphate or chromate conversion. Degassing of galvanised steel prior to powder application is considered mandatory - follow the procedural advice of the pretreatment supplier.

Application **Interpon D1200 STF** can be applied by manual or automatic electrostatic spray equipment. Unused powder can be reclaimed using suitable equipment and recycled through the coating system.

Safety Precautions Please consult the Material Safety Datasheet

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.

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