

Product Datasheet



BU Powder Coatings

Interpon D1036 Textured

Code: SWA03JR D1036 GO MIC NERO BOND TR

AkzoNobel

Tomorrow's Answers Today

Product Description

Interpon D1036 Textured effects powder coating finishes, with fine and coarse aspect, are specifically formulated for use on architectural metal components.

The **Interpon D1036** range of polyester powder coatings has been specifically formulated without TGIC.

Interpon D1036 Textured coatings give excellent exterior durability and colour retention and conform to the requirements of all the major European architectural finishing standards. **Interpon D1036 Textured** coatings save a superior scratch resistance to many conventional systems.

The **AC** version (Advanced Cavity) improved coverage in Faraday Cage areas.

The **AF** version (Advanced Fluidity) improved flow for application process.

Interpon D1036 powders are lead-free and meet the requirements of GSB, Qualicoat Class 1 and EN12206 (formerly BS6496), BS6497:1984

Powder Properties

Chemical type	Polyester
Gloss (60°) ISO2813	-
Particle Size	Suitable for electrostatic spray
Specific gravity	1.5 – 1.6 depending on colour
Storage	Dry, cool conditions
Shelf life	24 months below 30°C peak temperature 12 months below 35°C peak temperature
Stoving schedule (object temperature)	20-40 minutes at 180°C 12-24 minutes at 200°C 8-14 minutes at 210°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 (0.5-0.8mm Al Mg1)
Pretreatment	Chromate
Film Thickness	70-80microns
Stoving	12 minutes at 200°C (object temperature)

Mechanical Tests

Adhesion	ISO2409 (2mm Crosshatch)	Pass Gt 0
Erichsen Cupping	ISO1520	Pass>6mm
Hardness	ISO2815	Minimum 80
Impact	ASTM D2794	Pass 2.5 joules reverse & direct or 20 inch pounds
Flexibility	ISO1519	Pass 5mm

Corrosion Tests

Salt Spray	ISO 7253	Pass at 1000 hours - no corrosion area more than 2mm from scribe
Acetic Acid Salt Spray	ISO9227	Pass at 1000 hours <16 mm ² corrosion/10cm
Constant Humidity	ISO6270	Pass at 1000 hours - no blistering, creep<1mm
Sulphur Dioxide	ISO3231	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

D1036 Textured

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

Pretreatment

For maximum protection it is essential to pretreat components prior to the application of $\alpha\beta\chi\delta$ **D1036 Textured**. Aluminium components should receive a full multi-stage chromate conversion coating or 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 pretreatment supplier.

Interpon D1036 Textured products may also be used on cast or mild steel. For outdoor use **Interpon PZ** or **APP120** anti-corrosive primer over a correctly prepared substrate is recommended.

Application

Interpon D1036 Textured effect powders must be applied by conventional electrostatic or tribostatic spray equipment using the application parameters given below:

- fluidising air pressure 1.0-2.0kg/cm²
- transport air pressure 0.5-0.8kg/cm²
- additional air pressure 0.4-0.8kg/cm²
- voltage 40-60kV
- cured film thickness 70-90 microns

For solid shades unused powder can be reclaimed using suitable equipment and recycled through the coating system.

To ensure good final results, the surface coated must be as uniform as possible.

The thickness of the film must be checked as under thickness or over thickness can lead to a difference in the gloss and in the final aspect.

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 Akzo Nobel.

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 Akzo Nobel.

□ Akzo Nobel Coatings Spa – Via Silvio Pellico, 8 – 22100 Como - Italy
Tel: ++39.031.345 111 - Fax: ++39.031.345 352 - WWW.interpon.com
 $\alpha\beta\chi\delta$ is a trademark of Akzo Nobel group

D1036 Textured – Issue 1
Issued 01/09/2010

Interpon
powder coatings
EVERY COLOR IS GREEN