AkzoNobel Powder Coatings Spa
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Technical data sheet

Date : : 12/01/2016
Product name : Interpon D1036 Texture
Code : SW309I
Color : D1036 GO MIC SILVER BOND
Product Description : **Interpon D1036 Texture** is a range of powder coatings with fine texture aspect intended for use on architectural aluminium and galvanized steel. **Interpon D1036 Texture** coatings have been specifically formulated without the use of TGIC. **Interpon D1036 Texture** coatings have a better scratch resistance than many conventional systems.
As part of the **Interpon D** series of architectural powders, **Interpon D1036 Texture** gives excellent exterior durability and colour retention and conforms to the requirements of all the major European architectural finishing standards. All **Interpon D1036 Texture** powders are lead-free and meet the requirements of GSB standard, Qualicoat Class 1, EN12206, and EN13438 (formerly BS6496 &BS6497), and AAMA 2603.

Qualicoat Licence Number P-0295 (France), P-0878 (Italy), P-0751 (Spain), P-1082 (Czech Rep.), P-0889 (Turkey)
GSB Licence Number 108 ae (gloss 20)

Powder properties

Type : Polyester
Gloss : 10-30 gloss units
Specific gravity : 1.57 g.cm ^{3}
Particle size : suitable for electrostatic spray
Stoving schedule (object temp) : 20-40 minutes at 180°C
: 12-24 minutes at 200°C
: 8 -14 minutes at 210°C
Storage conditions : Dry cool conditions below 30°C *(open boxes must be resealed)*
Shelf life : 24 months below 30°C
: 12 months below 35°C

Test Conditions

Substrate (Mechanical tests) : Aluminium (0.5-0.8 mm Al Mg1)
Pretreatment: : Chromate (DIN 50539)
Application method : Electrostatic Spray
Cure schedule : 12 minutes at 200°C (object temperature)
Dry film thickness : 70 – 90 micrometers
Testing condition : 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.

Mechanical tests

Flexibility (cylindrical Mandrel)	: Pass 4mm	ISO 1516
Adhesion (2mm crosshatch)	: Gt0 (2mm crosshatch)	ISO 2409
Erichsen Cupping	: Pass > 6mm	ISO 1520
Impact	: Pass 2.5 Joules reverse & direct (20 in lb)	ISO 6272 (1993)
Buchholz hardness :	>80	ISO 2815

Chemical tests

Acetic acid salt spray :	<16 mm^2 corrosion/10cm, 1000 hours IS	O 9227
Constant Humidity	: No blistering, creep <1mm (1000 hours)	ISO 6270
Sulphur Dioxide	: Pass 30 cycles – no blistering, gloss loss	ISO 3231
or	discoloration	
Permeability	: Pressure Cooker – pass, 1 hour no defects	EN12206:2004
Chemical Resistance	: Generally good resistance to acid, alkalis and oils at normal temperatures	
Mortar resistance	: No effect after 24 hours	EN12206:2004
Exterior Durability	: >50% gloss retention	ISO2810 (1 year)
	Colour retention accords with GSB/Qualicoat	
	Chalking – none in excess of	ASTM D659:1980
Accelerated Weathering	: Gloss retention >50%	ISO 11341(1000 hrs)
:		QUV B 313 (300 hrs)
Colour Stability at Elevated temperatures	: Good	

Substrate pre-treatment

For maximum protection it is essential to pretreat components prior to the application of **Interpon D1036 Texture.**
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 Texture 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 D1036 Texture powders can be applied by manual or automatic electrostatic spray or tribo-charging equipment. For solid shades, unused powder can be reclaimed up to a maximum of 20% using suitable equipment and recycled through the system. Please consult AkzoNobel for further details as to the correct mixing ratio for virgin/reclaim powder.
All powders can show small colour differences from batch to batch, this is normal and unavoidable. While AkzoNobel take every precaution to minimize visible differences, this cannot be guaranteed. Applicators and fabricators are advised to use a single batch for parts that will be assembled together. Differences are more likely with special effect powders.

Bonded products have better application properties than blended products (more stable) but attention should still be paid to line settings in order to avoid “marble effect” and changes in aspect after recycling. For more details it is suggested to read the “Metallic Application Guideline”

Different substrates (aluminium, steel, galvanized steel…), use of primer, and big changes in film thickness may give a different aspect.
Products with different codes should not be mixed even if same colour and gloss.
For more details it is suggested to read the “**Metallic Application Guideline**”.

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) available from AkzoNobel.

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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 advices 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.