

Product Datasheet

Collection Futura 2006 - 2009



AkzoNobel
Tomorrow's Answers Today

BU Powder Coatings

Interpon D1036 Smooth – Metallic & Chiné

The information given in this datasheet refers to the products **Interpon D1036 Smooth – Metallic & Chiné** and should not be construed as referring to other products in the **Interpon D** and **Interpon D1036** ranges.

Product Description

Collection Futura 2006 – 2009 is a range of 48 special effect finishes, 18 of which are **Interpon D1036** smooth finishes. **Interpon D1036** smooth finishes are in 2 types:

Metallic effects : 16 colours Chiné effects : 2 colours

Interpon D1036 is specifically formulated for use on architectural metal components. The **Interpon D1036** range of polyester powder coatings has been specifically formulated without TGIC. **Interpon D1036** coatings give excellent exterior durability and gloss retention and conform to the requirements of all the major European architectural finishing standards. **Interpon D1036** powders are lead-free and meet the requirements of GSB, Qualicoat Class 1 and EN12206 (formerly BS6496), BS6497:1984

Smooth & Metallic finishes from Collection Futura:

Matt :

Shade	Code	Shade	Code	Shade	Code
Annapurna	SW213F	Atlante	SW212F	Marron d'inde	SW208F
Canon	SW209F	Cuivre	SW206F	Manganese	SW204F
Gobi	SW211F	Horn	SW215F	Silver	SW206G
Platine	SW203F	Pyrite	SW207G		
Champagne	SW251F	Bronze	SW205F		

Satin :

Shade	Code
Acier	SW161D

Gloss :

Shade	Code	Shade	Code
Baltic	SWJ01F	Gris 9770 Chiné	SXJ01F
Galet	SXJ00F	Noir 163 Chiné	SXJ02F

Powder Properties

Chemical type	Polyester
Gloss (60°) ISO2813	Matt : 20 – 36 Satin : 60 - 80 Gloss : 70 - 90
Particle Size	Suitable for electrostatic spray
Specific gravity	1.4 – 1.8 g/cm ³ depending on colour
Storage	Dry, cool conditions
Shelf life	Matt : 24 months below 30°C peak temperature : 12 months below 35°C peak temperature Gloss/ Satin : 24 months below 30°C peak temperature : 12 months below 35°C peak temperature
Stoving schedule (object temperature)	Matt : 15-30 minutes at 180°C : 12.5-25 minutes at 190°C : 10-20 minutes at 200°C : 8-16 minutes at 210°C Gloss/Satin : 20-40 minutes at 170°C : 10-20 minutes at 180°C : 8-16 minutes at 200°C : 4-10 minutes at 210°C

Interpon D1036 Smooth – Metallic & Chiné

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	Matt : 10 minutes at 200°C (object temperature) Gloss/Satin : 8 minutes at 200°C (object temperature)

Mechanical Tests

Adhesion	ISO2409 (2mm Crosshatch)	Pass Gt 0
Erichsen Cupping	ISO1520	Pass>5mm
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	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

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 **Interpon D1036 Smooth – Metallic & Chine**. 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 Smooth – Metallic & Chiné 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 Smooth – Metallic & Chiné effect powders must be applied by conventional electrostatic or tribostatic spray equipment using the application parameters given below:

- fluidising air pressure 0.4-1.0kg/cm²
- transport air pressure 0.4-0.8kg/cm²
- additional air pressure 0.4-0.8kg/cm²
- voltage 40-60kV

The actual application parameters must be adapted and adjusted depending on the type of component and with each powder batch in order to give a finish in accordance with our colour standard. The shade and appearance may be subject to variation according to the method of application (type of gun, nozzle, pot etc.).

The use of direct food box feed equipment (pressurized pot or vibrating sieve), or triboelectric equipment cannot reproduce fully the finish on our colour standard.

The following procedure is given as a guideline when using these finishes:

- We recommend the use of flat jet spray nozzles.
- To ensure powder homogeneity empty the boxes totally into the tray or feed hopper.
- Only one spray run and one batch of powder should be used for components going on the same building
- For manual application it is essential to ensure that an even film thickness is applied and in all instances sinusoidal gun movements should be avoided.

For the following products, **SW206G**, **SW207G**, **SXJ00F**, **SWJ61D** and **SW251F**, unused powder can be reclaimed up to a maximum of 30%, using suitable equipment and recycled through the coating system. For other products in the range recycling is not recommended, for further details please consult the individual TDS.

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.
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Safety Precautions	Please consult the Material Safety Datasheet (MSDS)
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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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