Product Datasheet

AkzoNobel

Collection Futura

BU Powder Coatings PDS No. S 01

Interpon D1036

The information given in this datasheet is generic for the range **Interpon D1036.**
Specific products within the range can vary from the generic. For these products individual product datasheet are available

Product Description

Interpon D1036 Gloss (85) is a range of powder coatings intended for use on architectural aluminium and galvanized steel. Available in a wide stock range **Interpon D1036** has been specifically formulated without the use of TGIC. As part of the **Interpon D** series of architectural powders, **Interpon D1036** gives excellent exterior durability and colour retention and conforms to the requirements of all the major European architectural finishing standards. All **Interpon D1036** powders are lead-free and meet the requirements of GSB, Qualicoat Class 1, and EN 12206 (formerly BS6496),BS6497:1984.

Powder Properties

Chemical type	Polyester
Gloss (60°) ISO2813	Available in a wide range of gloss
Color	Available in a wide range of colors
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	24 months below 30°C peak temperature
Sales Code	D1036 Batch No:
Stoving schedule (object temperature)	8-15 minutes at 200°C 9-18 minutes at 190°C 10-20 minutes at 180°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	60-80microns
Stoving	10 minutes at 200°C (object temperature)

Mechanical Tests

Adhesion	ISO2409 (2mm Crosshatch)	Gt 0
Erichsen Cupping	ISO1520	Pass>6mm
Hardness	ISO2815	Minimum 80
Impact	ISO 6272-1	1kg/25 cm direct and indirect
Flexibility	ISO1519	Pass 4mm

Chemical and Durability 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 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
Exterior Durability	ISO2810	≥50% Gloss retention.

(Florida 12 months 5° south) Colour retention in accordance with GSB or Qualicoat

Accelerated Weathering Test	Suntest Original – Hanau-Quartzlampen ISO11341	≥50% Gloss retention after 1000 hours
	QUV B313	≥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 D1036 Gloss (85)**. 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 D1036 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 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 Akzo Nobel

Safety Precautions

Please consult the Material Safety Datasheet (MSDS)

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