

Product Datasheet



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 | 8-15 minutes at 200°C | | |
| | (object temperature) | 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. |

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Issue 1

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

| | | |
|------------------------------------|---|---|
| Accelerated Weathering Test | Suntest Original – Hanau-Quartzlampen ISO11341 QUV B313 | ≥50% Gloss retention after 1000 hours |
| Light Fastness | DIN54004 | ≥50% Gloss retention after 300 hours 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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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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