

Product Data Sheet

AkzoNobel Powder Coatings

Interpon D1300 Fine texture

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| Product Description | <p>Interpon D1300 Fine texture is a range of powder coatings intended for use on architectural aluminum coil and sheets giving an excellent post-forming flexibility and outdoor performance.</p> <p>Available in a wide range of colors on demand, Interpon D1300 Fine texture has been specifically formulated without the use of TGIC and lead-free.</p> <p>Interpon D1300 Fine texture gives excellent exterior durability and color retention and conforms to the requirements of all the major European architectural finishing standards.</p> | | |
| Powder Properties | Chemical type | Polyester | |
| | Appearance | Fine texture | |
| | Gloss level | 5 - 15 gloss units | |
| | Particle Size | Suitable for electrostatic spray | |
| | Specific gravity | 1.2-1.7g/cm ³ depending on color. | |
| | Storage | Dry, cool conditions (open boxes must be resealed) | |
| | Shelf life | 9 months below 20°C | |
| | Curing schedule | 2 minutes at 232°C (Peak Metal temperature.) | |
| Mechanical Tests | Flexibility | ISO 1519 (cylindrical Mandrel) | Pass 4mm |
| | | ECCA (Bend test) | 1.5T to 2.5T (depend of color) |
| | Adhesion | ISO 2409 (2mm Crosshatch) | Pass Gt0 |
| | Erichsen cupping | ISO1520 | Pass >7mm |
| | Impact resistance | ISO 6272 | Pass 10 Joules reverse & direct |
| | Hardness | ISO 2815 | > 80 |
| Environmental and Durability Tests | Acetic Acid Salt Spray | ISO 9227 | <16 mm ² corrosion/10cm (1000 hrs) |
| | Constant Humidity | ISO 6270 | No blistering, creep <1mm (1000 hrs) |
| | Sulphur Dioxide | ISO 3231 | Pass 30 cycles– no blistering, loss of gloss or discoloration |
| | Permeability | Pressure Cooker EN12206-2004 | Pass 1 hour, no blistering |
| | Chemical Resistance | | Generally good resistance to acid, alkalis and oils at normal temperatures. |
| | Mortar Resistance | EN12206-2004 | No effect after 24 hours |

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| | Accelerated Weathering | ISO16474-2 (1000 hrs) ISO11507:1997 QUV B 313 (600 hrs) | >50% Gloss retention |
| | Exterior Durability | ISO 2810 | >50% Gloss retention Colour retention in accordance with the major European architectural standards. Chalking – none in excess of minimum in ASTM D659:1980 |
| Test Conditions | Testing has been determined under laboratory conditions using the following application properties and is for guidance only. | | |
| | Substrate | Aluminum (1.5 mm) | |
| | Pretreatment | Chrome free Qualicoat/GSB approved pretreatment | |
| | Film thickness | 60-80 microns (ISO 2360) | |
| | Cure schedule | 2 minutes at 232° C (peak metal temperature) | |
| | Actual film performance will depend on the individual circumstances in which the product is used. | | |
| Pre-treatment | For maximum protection it is essential to pretreat components prior to the application of Interpon D1300 Fine texture . Aluminum components should receive a full multi-stage chromate conversion coating or suitable chrome-free pre-treatment or suitable pre-anodizing to clean and condition the substrate. Detailed advice should be sought from the pre-treatment supplier. | | |
| Application | <p>Interpon D1300 Fine texture powders can be applied by manual or automatic electrostatic spray equipment. Unused powder can be reclaimed up to a maximum of 25% using suitable equipment and recycled through the system. Please consult AkzoNobel for further details as to the correct mixing ratio for virgin/reclaim powder.</p> <p>All powders can show small color 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.</p> <p>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 information, it is suggested to read the <i>Metallic Applications Guidelines</i>.</p> <p>Products with different codes should not be mixed even if same color and gloss.</p> | | |
| 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. | | |
| Maintenance | For specific advice on Cleaning and Maintenance, please consult the <i>Interpon D series Cleaning and Maintenance Guidelines</i> available from AkzoNobel. | | |

Safety Precautions

Text as per local regulations

Disclaimer

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 fulfil 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.

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