



AkzoNobel

Product Datasheet

2000 Series

BU Powder Coatings

PDS No. Y 03

Interpon D2525

The information given in this datasheet is generic for the range **Interpon D2525 Matt**. Specific products within the range can vary from the generic. For these products individual product datasheets are available.

Product Description

Interpon D2525 is a series of ultra-durable powder coatings specifically formulated without TGIC, for use on architectural aluminium components. Providing new levels of weathering resistance **Interpon D2525** surpasses the performance of leading architectural powders. It offers significantly higher gloss retention and resistance to colour change combined with maximum film integrity to ensure long term cosmetic and functional protection.

The **Interpon D2525** range was the first to be awarded the prestigious Qualicoat, Class 2 approval for Ultra durable powder coatings and conforms to the requirements of EN12206 (high durability systems) and AAMA 2604-5.

Powder Properties

| | |
|-----------------------------|---|
| Chemical type | Polyester |
| Gloss | |
| COLOR | Available in a wide range of colors |
| Particle Size | Suitable for electrostatic spray |
| Specific gravity | 1.2 – 1.9 g/cm ³ depending on colour |
| Storage | Dry, cool conditions below 30°C |
| Shelf life | 24 months below 30°C peak temperature |
| Sales Code | D2525 Batch No.: EP |
| Stoving schedule (a) | |
| (Object temperature) | 10-15 minutes at 200 °C |
| | 12-18 minutes at 190 °C |
| | 15-20 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

| | | |
|--------------------------|-------------------------------------|------------------------|
| Dry Adhesion | ISO2409 | Pass Gt 0 |
| Erichsen Cupping | ISO1520 and Qualicoat,Class 2 | Pass |
| Dry Film Hardness | ISO2815 (Buchholz) | Pass > 80 |
| Impact | ISO 6272-1 and Qualicoat,Class 2 | 1kg/20 cm- micro crack |
| Flexibility | ISO1519 and Qualicoat,Class 2 | Pass |

Chemical and Durability Tests

| | | |
|-------------------------------|---------|--|
| Salt Spray | BS117 | Pass at 3000 hours - no corrosion area more than 1.6mm from scribe Minimum Blister Rating 8 |
| Acetic Acid Salt Spray | ISO9227 | Pass at 1000 hours <16 mm ² corrosion/10cm |

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| Constant Humidity | ISO6270 | Pass at 1000 hours - no corrosion area > 1mm from scribe |
| Sulphur Dioxide | ISO3231 (Kesternich) | Pass – no blistering, loss of gloss or discoloration |
| Permeability | Pressure Cooker EN12206-1.2004 (5.1) | Pass – no defects after 1 hour |
| Chemical Resistance | Generally good resistance to acid, alkalis and oils at normal temperatures | |
| Exterior Durability | Exceeds Qualicoat Class 2 requirements after 3 years Florida Exposure | |
| Colour Stability at Elevated Temperatures | Excellent | |

Pretreatment

For maximum protection it is essential to pretreat components prior to the application of **Interpon □D2525 Matt**. Aluminium components should receive a full multi-stage chromate conversion coating or suitable chrome-free pre-treatment or suitable chrome-free pretreatment to clean and condition the substrate. Detailed advice should be sought from the pre-treatment supplier.

Application

Interpon D2525 Matt powders can be applied by manual electrostatic spray equipment. For solid shades unused powder can be reclaimed using suitable equipment and recycled through the coating system. For mixed colours and certain special effect finishes, advice must be sought from the manufacturer as to the suitability or otherwise of the product for recycling. Certain special effect finishes may not be suitable for recycling. For all mixed colour/special effect systems, advice must be sought as to the correct mixing ratio for virgin/reclaim powder.

Safety Precautions

Please consult the Material Safety Datasheet (PC010)

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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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