

Technical Datasheet

INTERPON D2525 MATT

Superdurable polyester powder coatings



Product description

Interpon D2525 Matt is a series of ultra-durable powder coatings specifically formulated without TGIC, intended for use on architectural aluminium and galvanized steel. Providing new levels of weathering resistance **Interpon D2525 Matt** 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. These powder coatings are classified in Family I – class 6c under standard NFT 36-005.

Interpon D2525 Matt meets the requirements of GSB Florida 3, Qualicoat Class 2, EN 12206 (formerly BS6496), EN13438 (formerly BS6497:1984) and AAMA 2604.

Some colours may not be available in Interpon D2525 Matt.

Following RAL shades are excluded from the RAL families for Qualicoat class 2: Ral 1003, 1028, 1033, 2004, 2011, 3015, 3017, 3018, 4001.

Approvals

| | |
|------------------------------------|--|
| Qualicoat Approval | P-1210 (FR) P-1212 (IT) P-1512 (TR) P-1201 (UK) P-1673 (CZ) P-2003 (AE) P-1244 (EG) P-1844 (RU) |
| GSB Approval | 183b (gloss 25) |
| Resistance to Fire Approval | Classification: A2,s1,d0 with film thickness up to 120 µm (generic polyester D1036, D2525) according to EN13501-1 |

Powder properties

| | Typical value |
|---------------------------|---|
| Chemical Type | Polyester |
| Appearance | Smooth Matt |
| Density | 1.2 - 1.9 g/cm ³ , depending on colour |
| Gloss (60°) | 20 - 30 GU |
| Shelf life | 24 months below 30 °C 12 months below 35 °C |
| Storage Conditions | (open boxes must be resealed) Dry, cool conditions |
| Curing schedule | 15 - 35 min at 180°C 12 - 25 min at 190°C 10 -20 min at 200°C (object temperature) |

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Pre-treatment

For maximum protection it is essential to pretreat components prior to the application of the powdercoating. 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. The products may also be used on cast or mild steel. For outdoor use Interpon Redox PZ anti-corrosive primer over a correctly prepared substrate is recommended.

Application

Powders can be applied by manual or automatic electrostatic spray equipment. This product should be applied at minimum 60µm. All powders can show small color differences from batch to batch, this is normal and unavoidable. 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. Products with different codes should not be mixed even if same colour and gloss. 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. For more information, it is suggested to read the Metallic Applications Guidelines. Clearcoats including tinted clearcoats cannot be applied directly on primers. Only fully opaque shades are suitable for application over primer.

| | |
|---------------------------|---|
| Application Method | Electrostatic |
| Recycling | <p>A constant ratio between virgin and recycled powders should be fixed by the coater in order to achieve a consistent effect following the AkzoNobel rules.</p> <p>Please consult AkzoNobel for further details as to the correct mixing ratio for virgin/reclaim powder.</p> <p>For solid shades, unused powder can be reclaimed</p> <p>Unused powder can be reclaimed using suitable equipment and recycled through the coating system, but a minimum of 70% virgin powder should be used.</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.

Test conditions

The results are based on mechanical and chemical tests which (unless otherwise indicated) have been carried out under laboratory conditions and are given for guidance only. Testing has been determined under laboratory conditions using the following application properties and is for guidance only.

| | |
|------------------------|---|
| Pre-treatment | Chrome free Qualicoat/GSB approved pretreatment |
| Substrate | Aluminum (0.5-0.8 mm Al Mg1) |
| Curing schedule | 10 min at 200°C (object temperature) |
| Film Thickness | 60 - 80µm, ISO 2360 |

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Mechanical tests

| | Typical value | Method/standard |
|-------------------|-------------------------------------|------------------------------|
| Adhesion | Class 0 | ISO 2409 (2 mm Crosshatch) |
| Erichsen cupping | Pass Qualicoat class 2 requirements | ISO 1520 |
| Flexibility | Pass Qualicoat class 2 requirements | ISO 1519 |
| Hardness | >80 | ISO 2815 (Buchholz hardness) |
| Impact resistance | Pass Qualicoat class 2 requirements | ISO 6272-2 (d/r) |

Chemical and durability tests

| | Typical value | Method/standard |
|----------------------------|--|-----------------|
| Chemical Resistance | Generally good resistance to acid, alkalis and oil at room temperatures. | |
| Sulphur Dioxide Resistance | Pass 24 cycles– no blistering, loss of gloss or discoloration | ISO 22479 |

Environmental and durability tests

| | Typical value | Method/standard |
|------------------------|---|-----------------------------------|
| Accelerated weathering | ≥90% Gloss retention, 1000 h | ISO16474-2 |
| | ≥50% Gloss retention, 600 h | ISO 16474-3 QUV B 313 (GSB) |
| Acetic acid salt spray | No blistering in excess of 2 (S2) according to ISO 4628-2. Infiltration <16 mm ² /10 cm, length of any single infiltration shall not exceed 3 mm., 1000 h | ISO 9227 |
| Humidity | No blistering in excess of 2 (S2) according to ISO 4628-2; the maximum infiltration at the cross is 1 mm, 1000 h | ISO 6270-2 CH (Constant humidity) |
| Exterior durability | Chalking – none in excess of minimum in ASTM D4214 Meets Qualicoat class 2 requirements after 3 years of Florida exposure Meet AAMA 2604 requirements after 5 years of Florida exposure 3 year(s) | ISO 2810 |
| Mortar resistance | No effect after 24 hours | EN 12206-1 |
| Wet adhesion | No sign of detachment or blistering. Cross-cut value 0. Qualicoat/GSB Colour change is acceptable. | |

Maintenance

For specific advice on Cleaning and Maintenance, please consult the Interpon D series Cleaning and Maintenance Guidelines available from AkzoNobel.

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Safety Precautions

This product is intended for use only by professional applicators in industrial environments and should not be used without reference to the relevant health and safety data sheet which Akzo Nobel has provided to its customers.

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.

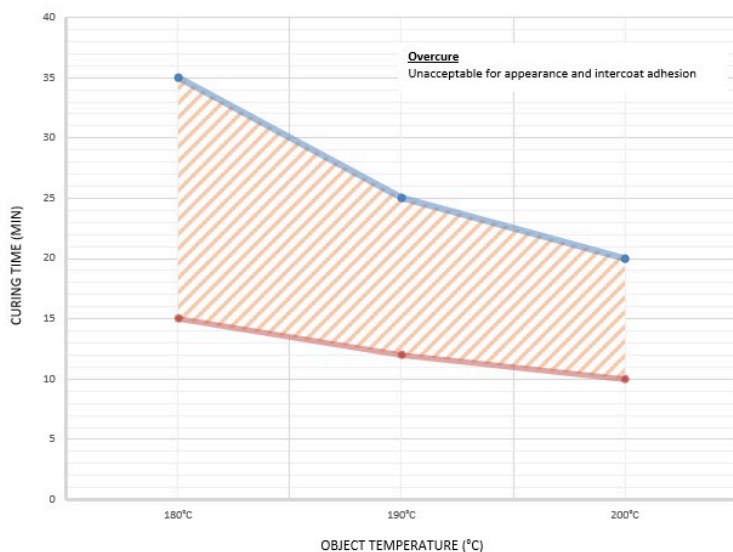
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Appendix

Curing window

Interpon D2525 Matt - curing window



Disclaimer:

The data contained in this Curing Window graph is obtained from laboratory coating trials under ideal curing conditions, and using perfectly prepared uncoated testing panels; consequently the curing window needs to be regarded as indicative only.

To ensure the correct curing is achieved, specific thermal and performance checks should be

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