

Product Data Sheet

AkzoNobel Powder Coatings

Interpon D2015 Précis Ultra-Matt

Product Description

Interpon D2015 Précis Ultra-Matt is a series of advanced durability powder coatings specifically designed to give a very low gloss appearance on architectural aluminum components. Providing outstanding weathering resistance, **Interpon D2015 Précis Ultra-Matt** typically complies with the requirements of Qualicoat Class 2 specifications. **Interpon D2015 Précis Ultra-Matt** is designed to offer significantly higher gloss retention and resistance to color change combined with maximum film integrity to ensure long term cosmetic and functional protection. **Interpon D2015 Précis Ultra-Matt** powder coatings are available in a selected range of colors and pearlescent effects in a low gloss matt finish.

Qualicoat Licence Number: P-1754

Powder Properties

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|---|--|
| Chemical type | Polyester TGIC Free |
| Appearance | Smooth Deep Matt |
| Gloss Level (60°) | 4-10 gloss units (depending on color) |
| Recommended Film Thickness (µm) | 70-90 µm |
| Specific gravity (g/cm³) | 1.2-1.9 g/cm ³ depending on color |
| Application | Suitable for electrostatic spray |
| Storage | Dry, cool conditions (open boxes must be resealed) |
| Shelf life | 18 months below 25°C |
| Curing schedule (object temperature) | 20-40 minutes at 180°C 15-30 minutes at 190°C 10-20 minutes at 200°C |

Note: Do not bake for less than the recommended time. Failure to observe the correct curing conditions may cause difference in color, gloss and the deterioration of the coating properties.

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 | Aluminum (0.5-0.8 mm Al Mg1) |
| Pretreatment | Chrome free Qualicoat/GSB approved pretreatment |
| Film Thickness | 60-80 µm (ISO 2360) |
| Curing Schedule | 15 minutes at 190° C (object temperature) |

Mechanical Tests

| | | |
|-----------------|------------------------------|------|
| Adhesion | ISO 2409 (2mm crosshatch) | Gt 0 |
|-----------------|------------------------------|------|

| | | |
|--------------------------|--------------------------------------|---------------------------------------|
| Flexibility | ISO 1519 (cylindrical Mandrel) | Pass Qualicoat Class2 requirements |
| Bucholz Hardness | ISO 2815 | >80 |
| Erichsen Cupping | ISO 1520 | Pass Qualicoat Class2 requirements |
| Impact Resistance | ISO 6272-2 | Pass Qualicoat Class2 requirements |

Environmental and Durability Tests

The results shown are based on tests which (unless otherwise indicated) have been carried out under laboratory conditions and are given for advice only, actual performance depends upon the circumstances under which the product is used.

| | | |
|---|--|---|
| Acetic Acid Salt Spray (1000 hours) | ISO 9227 | <16 mm ² corrosion/10cm |
| Constant Humidity (1000 hours) | ISO 6270-2 | Infiltration at cross section < 1 mm; no blistering |
| Sulphur Dioxide | ISO22479 | Pass 24 cycles – no blistering, gloss loss or discoloration |
| Permeability (Pressure Cooker) | EN12206-1 Par. 5.10 | Pressure Cooker – pass 1 hour no defects |
| Chemical Resistance | Generally good resistance to acid, alkalis and oils at normal temperatures. | |
| Mortar Resistance | EN12206-1 | No effect after 24 hours |
| Accelerated Weathering | ISO16474-2 (1000 h) QUV B 313 (600 h) | >90% Gloss retention >50% Gloss retention |
| Exterior Durability | ISO 2810 | Meets Qualicoat class 2 requirements after 3 years Florida |

Pretreatment

For maximum protection it is essential to pretreat components prior to the application of **Interpon D2015 Précis Ultra-Matt**.

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.

Application

Interpon D2015 Précis Ultra-Matt powders can be applied by manual or automatic electrostatic spray equipment. To ensure the highest consistency of metallic appearance the powder should always be applied from a fluidised hopper. Unused or over-sprayed powder coating can be reclaimed up to a maximum of 20% using suitable equipment and recycled through the coating system. Please consult AkzoNobel for further details as to the correct mixing ratio for virgin/reclaim powder.

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.

For bonded products attention should 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 *Metallic Applications Guidelines*.

Products with different codes should not be mixed even if same color and gloss. **Interpon D2015 Précis Ultra-Matt** powder coatings give a consistent low gloss appearance when cured according to the recommended cure schedule. Under or over curing the powder will result in loss of film integrity and/or significant change in gloss.

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.

Interpon **D2015 Précis Ultra-Matt** is more susceptible to visible scratches due to its low gloss property and requires particular care during handling, packaging and transportation.

Maintenance

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

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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<http://www.interpon.com/contact-us/>

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