

Technical Datasheet

INTERPON D2015 PRECIS UM



Superdurable polyester powder coatings with dead-matt finish

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.

Approvals

Qualicoat Approval	P-1754 (IT)
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 – TGIC Free
Appearance	Smooth Deep Matt
Density	1.2 - 1.9 g/cm ³
Gloss (60°)	4 - 10 GU
Recommended film thickness	70 - 90µm
Shelf life	18 months below 25 °C
Storage Conditions	(open boxes must be resealed) Dry, cool conditions
Curing schedule	20 - 40 min at 180°C 15 - 30 min at 190°C 10 - 20 min at 200°C (object temperature) 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.

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.

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

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Revision Date: V4, 02.12.2024

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Application

Powders can be applied by manual or automatic electrostatic spray equipment. 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 detailed information please contact AkzoNobel technical service team. For more information, it is suggested to read the Metallic Applications Guidelines.

To ensure the highest consistency of metallic appearance the powder should always be applied from a fluidised hopper. Interpon D2015 Precis 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.

Application Method	Electrostatic
Recycling	Please consult AkzoNobel for further details as to the correct mixing ratio for virgin/reclaim powder. Unused powder can be reclaimed up to a maximum of 20% using suitable equipment and recycled through the system.

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.

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	15 min at 190°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, 300 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	Meets Qualicoat class 2 requirements after 3 years of Florida exposure	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.

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.

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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.

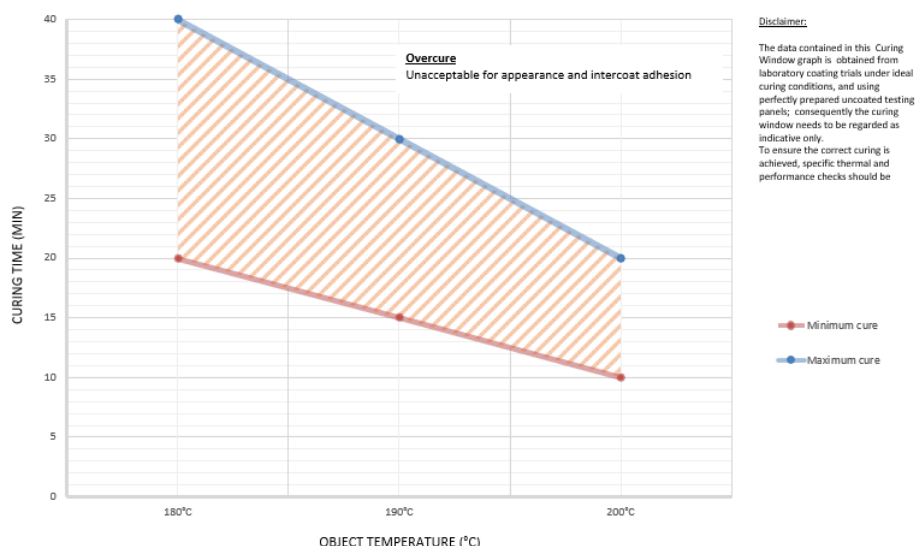
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Appendix

Curing window

Interpon D2015 Precis UM - curing window



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