

Product Data Sheet

AkzoNobel Powder Coatings

Interpon D2015 Précis™

Product Description	<p>Interpon D2015 Précis™ is a series of advanced durability powder coatings specifically designed to give a very low gloss appearance on architectural aluminium components. Providing outstanding weathering resistance, Interpon D2015 Précis™ typically complies with the requirements of Qualicoat Class 2, GSB Master and AAMA 2604 specifications. Interpon D2015 Précis™ is designed to offer significantly higher gloss retention and resistance to colour change combined with maximum film integrity to ensure long term cosmetic and functional protection. Interpon D2015 Précis™ powder coatings are available in a selected range of colours and pearlescent effects in a low gloss matt finish.</p> <p>Qualicoat Licence Number: P-1309 GSB Licence Number: 164 a</p>		
Powder Properties	Chemical type	Polyester TGIC-Free	
	Appearance	Smooth Deep Matt	
	Gloss level	5 – 15 gloss units (depending on colour)	
	Particle size	Suitable for electrostatic spray	
	Specific gravity	1.2-1.9g/cm ³ depending on colour	
	Storage / Shelf Life	Dry cool conditions (below 35°C) / 12 months	
	Curing schedule	25-40 minutes at 180°C (at object temperature) 15-30 minutes at 190°C 10-20 minutes at 200°C	
	<p>Note: Do not bake for less than the recommended time. Failure to observe the correct curing conditions may cause difference in colour, gloss and the deterioration of the coating properties.</p>		
Mechanical Tests	Flexibility	ISO 1519 (cylindrical mandrel)	Pass Qualicoat class 2 requirements
	Adhesion	ISO 2409 (2mm crosshatch)	GT 0
	Erichsen cupping	ISO 1520	Pass Qualicoat class 2 requirements
	Impact resistance	ISO 6272	Pass Qualicoat class 2 requirements
	Hardness	ASTM D 3363	F min
Environmental and Durability Tests	Acetic Acid Salt Spray	ISO 9227	< 16mm ² corrosion/10cm (1000 hrs)
	Constant Humidity	ISO 6270-2	Infiltration at cross section < 1 mm; no blistering (1000 hrs)

Sulphur Dioxide	ISO 3231	Infiltration at cross section < 1 mm; no blistering; no discoloration (30 cycles)
Permeability	Pressure cooker EN 12206-1:2004	No detachment, no blistering (1 hour)
Chemical Resistance		Generally good resistance to acids, alkalis and oils at normal temperatures
Mortar Resistance	EN 12206-1:2004	No effect after 24 hours
Accelerated Weathering	ISO 16474-2 (1000 hrs) QUV B 313 (600 hrs)	Gloss retention > 90% Gloss retention > 50%
Exterior Durability	ISO 2810	Meets Qualicoat Class 2/GSB Master requirements after 3 years Florida Meets AAMA 2604-13 requirements after 5 years Florida

Test Conditions	Testing has been determined under laboratory conditions using the following application properties and is for guidance only.	
Substrate	Aluminium (0.5-0.8mm Al Mg1)	
Pretreatment	Chrome free Qualicoat/GSB approved pretreatment	
Film thickness	60-80 microns (ISO 2360)	
Cure schedule	15 minutes at 190°C (object 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 D2015 Précis™ . 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.
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Application	<p>Interpon D2015 Précis™ 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.</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>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 <i>Metallic Applications Guidelines</i>.</p> <p>Products with different codes should not be mixed even if same colour and gloss.</p> <p>Interpon D2015 Précis™ powder coatings give a consistent low gloss appearance</p>
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	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.
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	Please consult the relevant Material Safety Data Sheet (MSDS) available from AkzoNobel.
Disclaimer	<p>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.</p> <p>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 advices 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.</p> <p>Brand names mentioned in this data sheet are trademarks of or are licensed to AkzoNobel</p>

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