

Product Data Sheet

AkzoNobel Powder Coatings

Interpon D2525 Brilliance

Product Description

Interpon D2525 Brilliance 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 Brilliance** 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.

The **Interpon D2525 Brilliance** series being part of **Interpon D2525 range** is awarded the prestigious Qualicoat Class 2 approval for ultra-durable architectural powder coatings and conforms to the requirements of EN12206 and EN13438 (high durability systems), GSB Master and AAMA 2604.

Qualicoat Licence number: P-1210 (France), P-1212 (Italy), P-1201 (UK), P-1512 (Turkey), P-1673 (Czech Republic), P-1415 (Russia), P-1244 (Egypt) under the brand Interpon D2525 Matt

GSB Licence number: 183b (gloss 25)

Powder Properties

Chemical type	Polyester
Appearance	Smooth
Gloss level	20 - 30 gloss units
Particle Size	Suitable for electrostatic spray
Specific gravity	1.2-1.9g/cm ³ depending on colour.
Storage	Dry, cool conditions below 30° (open boxes must be resealed)
Shelf life	24 months below 30°C peak temperature 12 months below 35°C peak temperature
Curing schedule (at object temperature)	15-35 minutes at 180°C 12-25 minutes at 190°C 10-20 minutes at 200°C

Mechanical Tests

Flexibility	ISO 1519 (cylindrical Mandrel)	Pass Qualicoat class 2 requirements
Adhesion	ISO 2409 (2mm Crosshatch)	Pass Gt0
Erichsen cupping	ISO1520	Pass Qualicoat class 2 requirements
Impact resistance	ISO 6272-2	Pass Qualicoat class 2 requirements
Hardness	ISO 2815	> 80

Environmental and

Acetic Acid Salt Spray	ISO 9227	<16 mm ² corrosion/10cm (1000
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Durability Tests		hrs)
Constant Humidity	ISO 6270-2	No blistering, creep <1mm (1000 hrs)
Sulphur Dioxide	ISO22479	Pass 24 cycles– no blistering, loss of gloss or discoloration
Permeability	Pressure Cooker EN12206-1 Par. 5.10	Pass 1 hour, no blistering
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 hrs) ISO11507:1997 QUV B 313 (600 hrs)	>90% Gloss retention >50% Gloss retention
Exterior Durability	ISO 2810	Meets qualicoat class 2 requirements after 3 years Florida Meets AAMA 2604 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	Aluminum (0.5-0.8 mm Al Mg1)	
Pretreatment	Chrome free Qualicoat/GSB approved pretreatment	
Film thickness	60-80 microns (ISO 2360)	
Cure schedule	10 minutes at 200° 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 D2525 Brilliance .	
	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.	
	Galvanised steel requires surface preparation by either multi-stage pretreatment using either zinc phosphate or chromate conversion or controlled sweep blasting. Depending on the type of galvanizing, degassing or use of anti-bubbling additives may be required – follow the procedural advice of the pretreatment supplier.	
	Interpon D2525 Brilliance 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	Interpon D2525-Brilliance powders can be applied by manual or automatic electrostatic spray equipment. We recommend the use of flat jet spray nozzles.	
	The use of direct box feed equipment may not reproduce fully the finish of our color standard. To ensure powder homogeneity, empty the boxes totally into the tray or feed hopper. Only one spray run and one batch should be used for components that are	

going to be simultaneously visible following assembly/fabrication. For manual application it is essential to ensure that an even film thickness is applied.

All powders can show small colour 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.

Unused powder can be recovered and recycled on most common equipment subject to normal controls on ratios of recycled to virgin powder. AkzoNobel should be consulted for specific recommendations on recycle ratios for this product, but in any circumstances the recycled virgin ratio should not exceed 1/5.

Different substrates (aluminium, steel, galvanized steel...), use of primer, and big changes in film thickness may give a different aspect.

For more details it is suggested to read the „**Brilliance Application Guideline**“.

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	Text as per local regulations
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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