

# 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-1442 (Czech Republic) under the brand Interpon D2525 Matt

**GSB Licence number:** 183b (gloss 25)

#### Powder Properties

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

#### Mechanical Tests

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

#### Environmental and

<b>Acetic Acid Salt Spray</b>	ISO 9227	<16 mm <sup>2</sup> corrosion/10cm (1000
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<b>Durability Tests</b>		hrs)
<b>Constant Humidity</b>	ISO 6270	No blistering, creep <1mm (1000 hrs)
<b>Sulphur Dioxide</b>	ISO 3231	Pass 30 cycles– no blistering, loss of gloss or discoloration
<b>Permeability</b>	Pressure Cooker EN12206-2004	Pass 1 hour, no blistering
<b>Chemical Resistance</b>		Generally good resistance to acid, alkalis and oils at normal temperatures.
<b>Mortar Resistance</b>	EN12206-2004	No effect after 24 hours
<b>Accelerated Weathering</b>	ISO16474-2 (1000 hrs) ISO11507:1997 QUV B 313 (600 hrs)	>90% Gloss retention >50% Gloss retention
<b>Exterior Durability</b>	ISO 2810	Meets qualicoat class 2 requirements after 3 years Florida  Meets AAMA 2604-13 requirements after 5 years Florida
<b>Test Conditions</b>		
Testing has been determined under laboratory conditions using the following application properties and is for guidance only.		
<b>Substrate</b>	Aluminum (0.5-0.8 mm Al Mg1)	
<b>Pretreatment</b>	Chrome free Qualicoat/GSB approved pretreatment	
<b>Film thickness</b>	60-80 microns (ISO 2360)	
<b>Cure schedule</b>	10 minutes at 200° C (object temperature)	
Actual film performance will depend on the individual circumstances in which the product is used.		
<b>Pre-treatment</b>		
For maximum protection it is essential to pretreat components prior to the application of <b>Interpon D2525 Brilliance</b> .		
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.		
<b>Interpon D2525 Brilliance</b> products may also be used on cast or mild steel. For outdoor use <b>Interpon PZ</b> anti-corrosive primer over a correctly prepared substrate is recommended		
<b>Application</b>		
<b>Interpon D2525-Brilliance</b> 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**“.

<b>Post Application</b>	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.
<b>Maintenance</b>	For specific advice on Cleaning and Maintenance, please consult the <i>Interpon D series Cleaning and Maintenance Guidelines</i> available from AkzoNobel.
<b>Safety Precautions</b>	Text as per local regulations
<b>Disclaimer</b>	<p><b>IMPORTANT NOTE:</b> 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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