

# Product Data Sheet

## AkzoNobel Powder Coatings

### Interpon D2525 Satin AM

#### Product Description

**Interpon D2525 Satin AM** 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 Satin AM** surpasses the performance of leading architectural powders in combination with specific antimicrobial activity.. 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.

**Interpon D2525 Satin AM** meets the requirements of GSB Master, Qualicoat Class 2, EN 12206 (formerly BS6496), EN13438 (formerly BS6497:1984) and AAMA 2604.

Some colours may not be available in **Interpon D2525 Satin AM**

Following RAL shades are excluded from the RAL families for Qualicoat class 2: Ral 1003, 1012, 1018, 1028, 1033, 2004, 2011, 3015, 3017, 3018, 3020, 4001.

**Qualicoat Licence number:** P-1153 (France), P-1140 (Italy), P-0308 (UK), P-1510 (Turkey), P-1443 (Czech republic)

**GSB Licence number:** 183c (gloss 60)

<b>Powder Properties</b>	<b>Chemical type</b>	Polyester	
	<b>Appearance</b>	Smooth Satin	
	<b>Gloss level</b>	55-65 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 (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	
<b>Mechanical Tests</b>	<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
<b>Environmental and Durability Tests</b>	<b>Acetic Acid Salt Spray</b>	ISO 9227	<16 mm <sup>2</sup> corrosion/10cm (1000 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 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>	<p>For maximum protection it is essential to pretreat components prior to the application of <b>Interpon D2525 Satin AM</b>.</p> <p>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.</p> <p><b>Interpon D2525 Satin AM</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</p>
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<b>Application</b>	<p><b>Interpon D2525 Satin AM</b> powders can be applied by manual or automatic electrostatic spray equipment. For solid shades, unused powder can be reclaimed up to a maximum of 30% using suitable equipment and recycled through the system. Please consult AkzoNobel for further details as to the correct mixing ratio for virgin/reclaim powder.</p> <p><b>Interpon D2525 Satin AM</b> powders should be applied at minimum 60µm.</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>
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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. A constant ratio between virgin and recycled powders should be fixed by the coater in order to achieve a consistent effect. For more information, it is suggested to read the *Metallic Applications Guidelines*.

Products with different codes should not be mixed even if same colour and gloss.

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**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.

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**Additional Information**

Interpon D2525 Satin AM in conjunction with BioCote Ltd ® has been tested for antimicrobial efficacy in accordance with ISO 22196: 2011 and exhibited a minimum of 95% and up to 99.99% reduction in the population of *Escherichia coli* and Methicillin Resistant *Staphylococcus aureus* (MRSA). Testing was carried out by an independent laboratory and is classified as ‘microbiological results satisfactory’. BioCote® silver ion technology has been proven effective against the following bacteria in laboratory conditions:

Multi Drug Resistant Bacteria  
 ESBL *Escherichia coli*  
 CRE *Klebsiella pneumoniae*  
 MRSA Methicillin Resistant  
*Staphylococcus aureus*  
 VRE *Vancomycin Resistant*  
*Enterococcus*

Bacteria  
*Acinetobacter baumannii*  
*Bacillus subtilis*  
*Campylobacter* spp.  
  
*Clostridium difficile* (excluding spore form)  
*Escherichia coli* O157  
*Enterobacter aerogenes*  
*Enterococcus faecalis*  
*Legionella* spp.  
*Listeria monocytogenes*  
*Pseudomonas aeruginosa*  
*Salmonella* Enteritidis  
*Salmonella* Typhimurium  
*Shigella* spp.  
*Staphylococcus aureus*  
*Staphylococcus epidermidis*

Interpon D2525 Satin AM contains BioCote silver phosphate glass antimicrobial technology to preserve the coating surface and prevent degradation caused by microbial growth once applied to the intended substrate.

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**Maintenance**

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

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**Safety Precautions**

Please consult the Material Safety Datasheet (MSDS)

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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.

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

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