

Product Data Sheet

AkzoNobel Powder Coatings Interpon D2525 STF

Product Description

Interpon D2525 STF Matt and Texture is a range of powder coatings expressly formulated as a base for successive heat-transfer decoration. Smooth and fine structures are available.

Interpon D2525 STF Matt and Texture 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 STF Matt and Texture** 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.

Interpon D2525 STF Matt and Texture meets the requirements of Qualicoat Class 2, EN 12206 (formerly BS6496), EN13438 (formerly BS6497:1984) and AAMA 2604-13.

Some colours may not be available in Interpon D2525 STF Matt and Texture.

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.

The exterior durability of the decorated coating film (powder coating base + paper/film) is highly dependent on the exterior durability of the decorating papers/films inks; and not only on the powder coating base. To make sure that the decorated coating film has a good exterior durability it is recommended to put the decorated coating film through homologation tests.

Qualicoat Licence number (Italy): P-1190 (Interpon D2525 Texture); P-1189 (Interpon D2525 Matt) Turkey P1260 (Interpon D2525 Matt)

Qualideco Licence Number (Italy): PS-002 Decorative films: Memphis/Colormemphis Film; Miroglio/Decotrans Alu; Decoral System/Heat Transfer film Decoral System.

Powder Properties

Chemical type	Polyester
Gloss (EN ISO 2813 (60°))	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 (open boxes must be resealed)
Shelf life	24 months below 30°C peak temperature 12 months below 35°C peak temperature
Stoving schedule (object temperature)	15-30 minutes at 190°C 10-20 minutes at 200°C 8-16 minutes at 210°C

Test Conditions

The results shown below are based on mechanical and chemical tests which (unless otherwise indicated) have been carried out under laboratory conditions and are given for guidance only. Actual product performance will depend upon the circumstances under which the product is used.

Substrate	Aluminum (0.5-0.8 mm Al Mg1)
Pretreatment	Chromate (DIN 50539)
Dry Film Thickness	60-80 microns (ISO 2360)
Stoving	10 minutes at 200° C (object temperature)

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	ISSO 6272	Pass Qualicoat class 2 requirements
Hardness	ISO 2815	> 80

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Chemical and Durability Tests	Acetic Acid Salt Spray	ISO 9227	<16 mm ² corrosion/10cm (1000 hrs)	
	Constant Humidity	ISO 6270	No blistering, creep <1mm (1000 hrs)	
	Sulphur Dioxide	ISO 3231	Pass 30 cycles– no blistering, loss of gloss or discoloration	
	Permeability	Pressure Cooker EN12206-2004	Pass 1 hour, no blistering	
	Chemical Resistance		Generally good resistance to acid, alkalis and oils at normal temperatures.	
	Mortar Resistance	EN12206-2004	No effect after 24 hours	
	Exterior Durability	ISO 2810 (1 year)	Meets qualicoat class 2 requirements after 3 years Florida Meets AAMA 2604-13 requirements after 5 years Florida	
	Accelerated Weathering	ISO11341 (1000 hrs) ISO11507:1997 QUV B 313 (600 hrs)	>90% Gloss retention >50% Gloss retention	
	Pre-treatment	<p>For maximum protection it is essential to pretreat components prior to the application of Interpon D2525 STF Matt and Texture. 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>Interpon D2525 STF Matt and Texture products may also be used on cast or mild steel. For outdoor use Interpon PZ anti-corrosive primer over a correctly prepared substrate is recommended.</p>		
	Application	<p>Interpon D2525 STF Matt and Texture powders can be applied by manual or automatic electrostatic spray equipment. 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>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.</p> <p>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. 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>		
Post Application	<p>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.</p>			
Maintenance	<p>For specific advice on Cleaning and Maintenance, please consult the <i>Interpon D series Cleaning and Maintenance Guidelines</i> available from AkzoNobel.</p>			
Safety Precautions	<p>Please consult the relevant Material Safety Data Sheet (MSDS) available from AkzoNobel.</p>			
Disclaimer	<p>FOR PROFESSIONAL USE ONLY</p> <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 fulfill the demands set out in the local rules and</p>			

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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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