

Product Data Sheet

AkzoNobel Powder Coatings

Interpon 810 DB Smooth Satin

Product Description	The Interpon 810 DB polyester powder coating is certified according to Deutsche Bahn Standard (DBS 918340:2016). It is thus the only powder coating system on the market that is able to meet all product requirements in both the technical and decorative interior and exterior areas of Deutsche Bahn rail vehicles with just one product at a time.		
Powder Properties	Chemical type	Polyester	
	Area of usage	Components for rail vehicles	
	Appearance	Smooth, semi-gloss	
	Gloss level (60°)	50 ± 10 GU	
	Recommended Film Thickness (µm)	70 ± 10 µm	
	Density (g/cm³)	1.20 – 1,70	
	Application	Electrostatic	
	Storage	Under dry, cool (< 25°C) conditions	
	Shelf life	At least 24 months from production	
	Curing schedule (at object temperature)	15 minutes at 180°C 10 minutes at 190°C 7 minutes at 200°C	
Mechanical Tests	Adhesion	DIN EN ISO 2409	Gt 0-1
	Erichsen cupping	DIN EN ISO 1520	≥ 6 mm
	Impact resistance	DIN EN ISO 6272-1	25cm/1kg - pass
	Elasticity	DIN EN ISO 1519	≤ 5 mm
Environmental and Durability Tests	Neutral Salt Spray	DIN EN ISO 9227	1000 h
		DIN EN ISO 4628-1	0(S0)
		DIN EN ISO 4628-8	Area of corrosion ≤16 mm ² /10 cm Corrosion creep ≤ 4 mm from scribe
	Humidity	DIN EN ISO 6270-2	600 h
		DIN EN ISO 4628-2	0(S0)
DIN EN ISO 4628-3		Ri0 No blistering or loss of gloss	
Artificial Testing	DIN EN ISO 16474-2	1500 h > 50% gloss retention	
Chemical Resistance	Good resistance to following cleaning agents: Purol, Rapol & Rapidol Good resistance to following anti-graffiti agents: AGS 221		

Test Conditions	<p>Testing has been determined under laboratory conditions using the following application properties and is for guidance only.</p> <p>Substrate Aluminium</p> <p>Pretreatment Bonder (722/W/OF) Yellow Chromate</p> <p>Film thickness 70 µm</p> <p>Cure schedule 15 minutes at 180°C</p> <p>Actual film performance will depend on the individual circumstances in which the product is used.</p>
Pre-treatment	<p>Steel surfaces to be coated must be clean and free from grease. For maximum protection it is essential to pre-treat components prior to the application of Interpon 810 DB. Iron Phosphate and Zinc Phosphate of ferrous metals improve corrosion resistance. Aluminium parts require a chromate or chromate-free conversion pre-treatment.</p>
Application	<p>Interpon 810 DB powders can be applied by manual or automatic electrostatic spray equipment. It is recommended that for consistent application and appearance product be fluidized during application. Unused powder can be reclaimed using suitable equipment and recycled through the coating system.</p>
Safety Precautions	<p>This product is intended for use only by professional applicators in industrial environments and should not be used without reference to the relevant health and safety data sheet which Akzo Nobel has provided to its customers.</p>
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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Interpon 810 DB – Issue #1

Last Revision Date: 29.01.2020

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