

Product Data Sheet

AkzoNobel Powder Coatings

Interpon D3020 Matt (25)

Product Description

Interpon D3020 is a series of hyperdurable powder coatings designed to meet the most demanding architectural specification requirements in the world. AkzoNobel's Fluorocarbon technology uses innovative fluorocarbon polymer chemistry that is designed to provide maximum gloss and color retention in service.

Interpon D3020 is also designed to provide excellent cosmetic and functional protection whilst exploiting the recognized benefits of powder coatings complying with AAMA-2605. **Interpon D3020** conforms to the requirements of AAMA-2605, EN12206 and GSB Premium specifications.

GSB Licence number: 246b

Powder Properties	Chemical type	Fluoropolymer	
	Appearance	Smooth Matt	
	Gloss level	20 - 30 gloss units	
	Particle Size	Suitable for electrostatic spray	
	Specific gravity	1.2-1.7g/cm ³ depending on colour.	
	Storage	Dry, cool conditions (open boxes must be resealed)	
	Shelf life	6 months below 25°C peak temperature	
	Curing schedule (at object temperature)	20-35 minutes at 190°C 15-25 minutes at 200°C	
	Mechanical Tests	Flexibility	ISO 1519 (cylindrical Mandrel)
Adhesion		ISO 2409 (2mm Crosshatch)	Pass Gt0
Erichsen cupping		ISO1520	Pass Qualicoat class 3 requirements
Impact resistance		ISO 6272	Pass Qualicoat class 3 requirements
Hardness		ISO 2815	> 80
Environmental and Durability Tests	Acetic Acid Salt Spray	ISO 9227	<16 mm ² corrosion/10cm (2000 hrs)
	Constant Humidity	ISO 6270	No blistering, creep <1mm (2000 hrs)
	Sulphur Dioxide	ISO 3231	Pass 24 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

	Accelerated Weathering	ISO16474-2 (2000 hrs)	>90% Gloss retention Color change: not greater than 50% of the limits prescribed in Qualicoat Specifications
	Exterior Durability	ISO 2810	Meets AAMA 2605 requirements after 10 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	50-80 microns (ISO 2360)	
	Cure schedule	20 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 D3020 in accordance with the Interpon D <i>Approved Applicator Manual</i> . 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.		
Application	<p>Interpon D3020 Mat powders can be applied by manual or automatic electrostatic spray equipment. Unused powder can be reclaimed up to a maximum of 20% 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 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> <p>Bonded metallic 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 <i>Metallic Applications Guidelines</i>.</p> <p>Products with different codes should not be mixed even if same colour and gloss.</p> <p>Interpon D3020 is slightly incompatible with other powder coatings. It is therefore recommended to thoroughly clean the entire coating prior to and after the powder application.</p> <p>Interpon D3020 is based on fluorocarbon polymer chemistry hence corona application is recommended to get proper charging. Please contact Akzo Nobel or consult with your equipment supplier for alternatives.</p>		
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 *Interpon D series Cleaning and Maintenance Guidelines* available from AkzoNobel.

Safety Precautions

Interpon D3020 series contains caprolactam. When using, do not eat, drink or smoke. Do not breathe in the dust. In case of insufficient ventilation, wear suitable respiratory equipment.

For further information, please consult the Material Safety Datasheet (MSDS) available from AkzoNobel.

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.

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