

Product Data Sheet

AkzoNobel Powder Coatings

Interpon 501 S

Product Description

Interpon 501S is a sub type of Interpon 500S series and has specific metallic effect, suitable for aluminum substrates. Recommended applications include commercial buildings, curtain walls, residential doors, window frames, ceilings and walls.
Interpon 501S is designed for exterior environment, offering excellent long term weather resistance on a single coat finish, while maintaining superior scratch resistance.
Interpon 501S is designed to meet or exceed performance requirement of GB5237.4.
Interpon 501S is available in a variety of colors.

Powder Properties

Chemical type	Polyester
Appearance	Depends on specific product
Particle Size	Suitable for electrostatic spray
Gloss	Depends on specific product
Specific gravity	1.2-1.7g /cm ³ (depending on color)
Storage	Dry cool conditions below 30 °C
Shelf life	6months (<30 °C), 12 months (<25 °C)
Stoving schedule (object temperature)	15 minutes at 190°C 10 minutes at 200°C Failure to observe the correct curing conditions may cause difference in colour, gloss and the deterioration of the coating properties.

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	Al extrusion
Pretreatment	qualified Cr3+, Cr6+ or non-Cr pretreated
Film Thickness	60-80 microns
Stoving Schedule	10 minutes at 200°C (object temperature)

Mechanical Tests

Flexibility	GB/T 6742	Pass 3mm, no crack
Adhesion	GB/T 9286	Gt 0
Erichsen Cupping	GB/T 9753	Pass > 5mm
Impact (direct)	GB/T 1732	Pass-reverse direct, deformation 2.5mm no crack
Indentation hardness	GB/T 9275	Pass-Minimum 80 with the specified required
Boiling Water	GB5237.4-5.4.10	Pass-No detachment of the film, Slight gloss and color change is allowed

Chemical and Durability Tests

Constant Climate	GB/T 1740	Pass-1000 hours, no blistering or detachment
Condensation		
Mortar Resistance	GB5237.4-5.4.12	Pass- 24 hours, Gloss loss is slight
Immersion		
Accelerate durability	GB/T 1865	Pass-1000 hours

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Corrosion Tests	Acetate Acid Salt Spray	GB/T 10125	Pass-1000 hours,infiltration length<4mm
	Acid Resistance	GB5237.4-5.4.11	Pass-15 minutes,no blistering or detachment
Pre-treatment	For maximum protection it is essential to pretreat components prior to the application of Interpon 500S. Aluminum components should receive a full multi-stage chromate conversion coating or suitable chrome-free pre-treatment or suitable chrome-free pretreatment to clean and condition the substrate.		
Application	Interpon 500S powders can be applied by manual or automatic electrostatic spray equipment, however for consistency of finish automatic equipment is preferred. Unused powder can be reclaimed using suitable equipment and recycled through the coating system.		
	Fluidizing air pressure	~0.7 bar	
	Transport air pressure	~0.7bar	
	Recommended voltage	40-90kV	
Damage Repair	Surface preparation	Sanding + Air cleaning	
	Application	Recoat : Lower Voltage	
Safety Precautions	When using, do not eat, drink or smoke. Do not breathe the dust. In case of insufficient ventilation wear suitable respiratory equipment. For further information please refer to the specific product Material Safety Data Sheet (MSDS) available on request from your local AkzoNobel sales office.		
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 fulfill 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 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>		

AKZONOBEL Powder Coating (ShenZhen) Co.Ltd
Luotian avenue, Songgang Town, Shenzhen City. T: +86 (0755 27148450) F: +86 (0755 29936451)
AKZONOBEL Powder Coating (LangFang) Co.Ltd
32# Quanxing road, LangFang economic development area. T: +86 (0316 5919519) F: +86 (0316 5919516)
AKZONOBEL Powder Coating (NingBo) Co.Ltd
281#, Middle Wuxiang Road, NingBo City. T: +86 (0574 56801414) F: +86 (0574 55019983)
AKZONOBEL Powder Coating (SuZhou) Co.Ltd
125# Xiangyang road, SuZhou new area. T: +86 (0512 68257828) F: +86 (0512 68259139)
AKZONOBEL Powder Coating (ChengDu) Co.Ltd
9C Longteng industrial city, 155# centural avenue, ChendDu. T: +86 (028 84847493) F: +86 (028 84865050)
AKZONOBEL Powder Coating (WuHan) Co.Ltd
89# Xinhua road, Wuhan economic development area. T: +86 (027 84256701) F: +86 (027 83564473)
www.interpon.com

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