

## **Product Data Sheet**

	AkzoNobel Powde Interpon Align YN702I	r Coatings		
Product Description	<b>Interpon Align YN702I</b> is a superior UV and weather resistant TGIC-free polyester designed for exterior use with Black color and satin finish effect. <b>Interpon Align YN702I</b> , offers the benefit of curing with lower oven temperature settings or increasing line speeds to improve throughput under normal temperature settings. <b>Interpon Align YN702I</b> , can be applied directly over an <b>Interpon Align</b> primer or as a single coat only.			
Powder Properties	Chemical type	Polyester		
	Appearance	Black, satin		
	Gloss (60 <sup>0</sup> )	$40 \pm 3$ gloss unit		
	Particle Size	Suitable for electrostatic spray		
	Specific gravity	$\frac{1.4 \pm 0.1 \text{g/cm}^3}{1.4 \pm 0.1 \text{g/cm}^3}$		
	Coverage	9.5m <sup>2</sup> /kg (100% utilization @ 75 microns)		
	Storage	Dry cool conditions below 25°c (open boxes must be resealed)		
	Shelf life	12 months		
	Cure schedule (object temperature)	10-25 minutes @ 210-160 °C curing window. Bake schedule dependent on part thickness and heat up rate necessary to achieve specified temperature.		
		Failure to observe the correct curing conditions may cause differences in color, gloss the deterioration of the coating properties.		
Test Conditions	indicated) have been car	ried out under laboratory conditic	nemical tests which (unless otherwise ons and are given for guidance only. Actual under which the product is used.	
	Substrate	Cold rolled steel (0.8mm)		
	Pretreatment	Iron phosphate (B1000)		
	Film Thickness			
	FUID LDICKDESS	60-90 microns		
	Stoving Schedule	60-90 microns 15 minutes @ 160°c (object t	emperature)	
	Stoving Schedule	15 minutes @ 160°c (object t		
Mechanical tests			emperature) No cracking beyond first scribe line	
Mechanical tests	Stoving Schedule	15 minutes @ 160°c (object t		
Mechanical tests	Stoving Schedule	15 minutes @ 160°c (object t BS EN ISO 6860	No cracking beyond first scribe line ≤5% removed (2mm crosscut) Direct ≥40 kg.cm,	
Mechanical tests	Stoving Schedule Flexibility Adhesion	15 minutes @ 160°c (object t BS EN ISO 6860 BS EN ISO 2409	No cracking beyond first scribe line ≤5% removed (2mm crosscut)	
Mechanical tests Chemical and Durability tests	Stoving Schedule Flexibility Adhesion Impact resistance	15 minutes @ 160°c (object t BS EN ISO 6860 BS EN ISO 2409 BS EN ISO 6272-1	No cracking beyond first scribe line ≤5% removed (2mm crosscut) Direct ≥40 kg.cm, Reverse ≥20 kg.cm	
Chemical and	Stoving Schedule Flexibility Adhesion Impact resistance Pencil hardness	15 minutes @ 160°c (object t BS EN ISO 6860 BS EN ISO 2409 BS EN ISO 6272-1 BS EN ISO 15184	No cracking beyond first scribe line ≤5% removed (2mm crosscut) Direct ≥40 kg.cm, Reverse ≥20 kg.cm Pass 2H (gouge)	
Chemical and	Stoving Schedule Flexibility Adhesion Impact resistance Pencil hardness Neutral Salt Spray	15 minutes @ 160°c (object t BS EN ISO 6860 BS EN ISO 2409 BS EN ISO 6272-1 BS EN ISO 15184 BS EN ISO 9227	No cracking beyond first scribe line ≤5% removed (2mm crosscut) Direct ≥40 kg.cm, Reverse ≥20 kg.cm Pass 2H (gouge) 240hr, <2mm creep from scribe	



	Florida exposure	12 months	Gloss retention $(60^\circ) \ge 90\%$ Color change $\Delta E \le 5.0$		
	Accelerated weathering	ISO 11341 (1500 hours exposure)	Color change $\Delta E \le 5.0$		
Pre-treatment	When applying as part of an <b>Interpon Align</b> two layer system, refer to the appropriate primer and topcoat datasheets <b>Interpon Align YN702I</b> is suitable for application onto metal substrate surfaces cleaned of oil and grease and applied at ambient or higher substrate temperature range. Surface preparation depends upon the metal, the type of surface, its condition and the required performance. For good protection against corrosion either mechanical or chemical surface treatment or both, should be performed.				
	<ul> <li>Mechanical treatment:</li> <li>Blast profile impacts corrosion and potentially appearance, with grit blasting preferred. Substrate preparation, surface roughness, and condition must be confirmed as suitable for Interpon Align™.</li> <li>Remove dust by blowing with clean dry air or brush with a soft brush. Make sure that the particles removed do not contaminate other surfaces that have already been dusted. Blast-cleaned parts must not be handled with bare hands prior to coating. Use clean, lint-free gloves.</li> <li>Prior to blast-cleaning, it is advised that parts/substrate are kept at relative atmospheric humidity less than 85% and/or at object temperature greater than 3°C above the dew point to ensure proper substrate conditioning.</li> <li>Laser cut parts or contaminates from cutting may require mechanical or chemical removal.</li> </ul>				
	Application	<b>Interpon Align YN702I</b> can be applied by manual or automatic electrostatic spray equipment. Powder can be fed from either box feeder or fluid bed equipment. A recommended film thickness range of 60-90 microns, depending on aesthetic and performance requirements. Optimum aesthetics and film performance achieved at 60-90 microns and to ensure coverage of the metal surface, especially for grit blast profiled surfaces. Suitable bake schedules should be determined in association with technical assistance, dependent upon object metal thickness, mass and dimension.			
Safety Precautions	Please consult the Material Safety Datasheet (MSDS)				
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 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.				
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