

## **Product Data Sheet**

AkzoNobel Powder Coatings Interpon Align YN702I

## Product Description

**Interpon Align** is a "2C1B" (two-coat, one-bake) powder system comprised of a powder primer layer and an exterior color layer that are tailored to the coater / manufacturer specifications and processing requirements. The two specially formulated powder coating layers are applied to the component which is then put through a single curing process. This eliminates the need for a primer curing process before the topcoat is applied and offers the end coater considerable savings in energy, operational costs and time.

Powder Properties	Chemical type	Polyester		
	Product type	Topcoat		
	Markets	ACE/Cross-market segment products		
	Appearance	Black, matt		
	Gloss (60°)	40 ± 3 gloss units		
	Particle Size	Suitable for electrostatic spray		
	Specific gravity	$1.4 \pm 0.1 \text{g/cm}^3$		
	Coverage	9.5 m <sup>2</sup> /kg (100% utilization @ 75 microns)		
	Storage	Under dry, cool (< 25°C) conditions, at least 12 months from production date (open boxes must be resealed)		
	Cure schedule10-25 minutes @ 210-160 °C curing window. Bake schedul on part thickness and heat up rate necessary to achieve sp temperature.Failure to observe the correct curing conditions may cause color, gloss the deterioration of the coating properties			
Comments	exterior use with black co with lower oven tempera	olor and matt finish effect. <b>Inter</b> ture settings or increasing line s	sistant TGIC-free polyester designed for <b>pon Align YN702I</b> , offers the benefit of curing speeds to improve throughput under normal oplied directly over an <b>Interpon Align</b> primer or	
Test Conditions	indicated) have been car	rried out under laboratory condit	chemical tests which (unless otherwise tions and are given for guidance only. Actual s under which the product is used.	
	Substrate	Cold rolled steel (0.8mm)		
	Pretreatment	Iron phosphate (B1000)		
	Film Thickness	60-90 microns		
	Stoving Schedule	15 minutes @ 160°c		
Mechanical tests	Flexibility Adhesion Impact resistance	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,	
	Pencil hardness	BS EN ISO 15184	Reverse ≥20 kg.cm Pass 2H (gouge)	
Chemical and Durability tests	Neutral Salt Spray Cyclic corrosion	BS EN ISO 9227 BS EN ISO 9227	240hr, <2mm creep from scribe 40 cycles, <2mm creep from scribe	
	,			
	Sulphur dioxide	ASTM D2247 ISO 3231	6 cycles, no visible deterioration	



## Interpon Align YN702I

Florida exposure	12 months	Gloss retention	(60°) ≥ 90% ΔE ≤ 5.0	
Accelerated weathering	ISO 113/1	Color change	$\Delta E = 5.0$	
		Color change	ΔE ≤ 5.0	
		· ·		
Chemical resistance	Good resistance to distilled wa	ater, engine coolant, engine	oils and hydraulic fluid	
<ul> <li>When applying as part of an Interpon Align two layer system, refer to the appropriate primer and topcoat datasheets</li> <li>Interpon Align YN702I 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.</li> </ul>				
Mechanical treatment: 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™.				
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. 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. Laser cut parts or contaminates from cutting may require mechanical or chemical removal.				
<b>Chemical treatment:</b> To reinforce the anti-corrosion protection, or for practical assembly line reasons, chemical treatment may be performed in accordance with material supplier instructions.				
<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 25-90 microns, depending on aesthetic and performance requirements. Optimum aesthetics and film performance achieved at 60-90 microns 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.				
not be used without refere	ence to the relevant health an			
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.				
	Accelerated weathering Chemical resistance When applying as part of datasheets Interpon Align YN7021 is grease and applied at am upon the metal, the type of against corrosion either m Mechanical treatment: Blast profile impacts corro- preparation, surface rough Remove dust by blowing or removed do not contamin not be handled with bare Prior to blast-cleaning, it it than 85% and/or at object conditioning. Laser cut parts or contam Chemical treatment: To reinforce the anti-corro- may be performed in accor Interpon Align YN7021 ca can be fed from either boo- microns, depending on ac performance achieved at profiled surfaces. Suitable assistance, dependent up This product is intended for not be used without refere provided to its customers. IMPORTANT NOTE: The information of the use to than that specifically recom- from us as to the suitability responsibility of the user to legislation. Always read the advice we give or any state correct to the best of our knowled than that specifically recom- from us as to the suitability responsibility of the user to legislation. Always read the advice we give or any state correct to the best of our knowled than that specifically recom- from us as to the suitability responsibility of the user to legislation. Always read the advice we give or any state correct to the best of our knowled than that specifically recom- from us as to the suitability responsibility of the user to legislation. Always read the advice we give or any state	Accelerated weathering       ISO 11341 (1500 hours exposure)         Chemical resistance       Good resistance to distilled weathering datasheets         Interpon Align YN7021 is suitable for application onto a grease and applied at ambient or higher substrate temp upon the metal, the type of surface, its condition and the against corrosion either mechanical or chemical surface         Mechanical treatment:       Blast profile impacts corrosion and potentially appearar preparation, surface roughness, and condition must be         Remove dust by blowing with clean dry air or brush with removed do not contaminate other surfaces that have a not be handled with bare hands prior to coating. Use cl. Prior to blast-cleaning, it is advised that parts/substrate than 85% and/or at object temperature greater than 3°C conditioning.         Laser cut parts or contaminates from cutting may require than be fed from either box feeder or fluid bed equipment microns, depending on aesthetic and performance require performance achieved at 60-90 microns to ensure cover profiled surfaces. Suitable bake schedules should be of assistance, dependent upon object metal thickness, mar not be used withour reference to the relevant health and provided to its customers.         IMPORTANT NOTE: The information in this data sheet is present state of our knowledge and on current laws: any p than that specifically recommended in the technical data from us as to the suitability of the product for the intender responsibility of the user to take all necessary steps to fur legislation. Always read the Material Data Sheet and the T advice we give or any statement made about the product of the many factors affecting the use and application of th therefore, unless we specifically agree in writing otherwise performance of the product or for an	Accelerated weathering         ISO 11341 (1500 hours exposure)         Color change           Chemical resistance         Good resistance to distilled water, engine coolant, engine           When applying as part of an Interpon Align two layer system, refer to the appropriate datasheeds         Interpon Align YN7021 is suitable for application onto metal substrate surfaces grease and applied at ambient or higher substrate temperature range. Surface upon the metal, the type of surface, its condition and the required performance, against corrosion either mechanical or chemical surface treatment or both, shot           Mechanical treatment:         Blast profile impacts corrosion and potentially appearance, with grit blasting pre preparation, surface roughness, and condition must be confirmed as suitable for Remove dust by blowing with clean dry air or brush with a soft brush. Make surr removed do not contaminate other surfaces that have already been dusted. Bla not be handled with bare hands prior to coating. Use clean, lint-free gloves. Prior to blast-cleaning, it is advised that parts/substrate are kept at relative atmet than 85% and/or at object temperature greater than 3°C above the dew point to conditioning. Laser cut parts or contaminates from cutting may require mechanical or chemice than 64% and/or at object temperature greater than 3°C above the dew point to conditioning.           Interpon Align YN7021 can be applied by manual or automatic electrostatic spr profiled surfaces. Suitable bake schedules should be determined in association assistance, dependent upon object metal thickness, mass and dimension.           Misp product is intended for use only by professional applicators in industrial em provided to its customers.           MPORTANT NOTE: The information in this data sheet is	

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