

Product Data Sheet

AkzoNobel Powder Coatings

Interpon Align EE502G

Product Description

Interpon Align EE502G is part of a range of primer powders specifically formulated to allow the application of dual layers of coating that are co-cured together in a single bake or as part of a co-fusion process. Used in conjunction with an **Interpon Align** topcoat, the resultant system offers a superior UV and weather resistant coating with excellent appearance and performance with superior edge protection properties. **Interpon Align** systems can be applied to steel, aluminum and electrocoated surfaces.

Powder Properties

Chemical type	Epoxy-Polyester	
Appearance	Yellow, gloss	
Gloss (60°)	75-80 gloss units	
Particle Size	Suitable for electrostatic spray	
Specific gravity	1.5 ± 0.1g/cm ³	
Coverage	8.9m ² /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

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	Cold rolled steel (0.8mm)
Pretreatment	Iron phosphate (B1000)
Film Thickness	60-90 microns
Stoving Schedule	15 minutes @ 160°c

Mechanical tests

Flexibility	BS EN ISO 6860	Pass >6mm
Adhesion	BS EN ISO 2409	≤5% removed (2mm crosscut)
Stone chip resistance	SAE J400	4B minimum
Impact resistance	BS EN ISO 6272-1	Direct ≥40 kg.cm,
-		Reverse ≥20 kg.cm
Pencil hardness	BS EN ISO 15184	Pass 2H (gouge)
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Chemical and Durability tests

Neutral Salt Spray	BS EN ISO 9227	1000hr, <2mm creep from scribe
Chemical immersion	BS EN ISO 2812-1	Resistant to a range of chemicals including diesel fuel, hydraulic oil, anti-freeze, distilled water



1

Interpon Align (EE502G)

Pre-treatment

When applying as part of an Interpon Align two layer system, refer to the appropriate primer and topcoat datasheets

Interpon Align EE502G 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.

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.

Chemical treatment:

To reinforce the anti-corrosion protection, or for practical assembly line reasons, chemical treatment may be performed in accordance with material supplier instructions.

Application

Interpon Align EE502G 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.

Safety Precautions Disclaimer

Please consult the Material Safety Datasheet (MSDS)

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.

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