

# Product Data Sheet

## AkzoNobel Powder Coatings

### Interpon 100 AL403QF (Formerly 12-7003) Mist Gray U1556-1

<b>Product Description</b>	<p><b>Interpon 100</b> is a series of epoxy based powder coatings that exhibit excellent corrosion protection and chemical resistance when applied over a properly prepared metal substrate. <b>Interpon 100</b> is designed for interior application only. <b>Interpon 100</b> powders are available in gloss, satin, matte, and texture finishes in a wide range of colors.</p>		
<b>Powder Properties</b>	<b>Chemical type</b>	Epoxy	
	<b>Appearance</b>	Wrinkle	
	<b>Gloss level (Gardner 60°)</b>	1.5 – 3.5	
	<b>Recommended Film thickness</b>	2.5 – 4.0	
	<b>Specific gravity</b>	1.53 +/-0.05 g/cm <sup>3</sup>	
	<b>Coverage @ 1.0 mil</b>	126 sq.ft/lb/mil	
	<b>Storage</b>	Maximum 80°F	
	<b>Shelf life</b>	12 months	
	<b>Curing schedule (at object temperature)</b>	10 minutes at 375°F	
<b>Mechanical Tests</b>	<b>Flexibility</b>	ASTM D522	1/8" mandrel
	<b>Adhesion</b>	ASTM D3359	100%
	<b>Impact resistance (Direct)</b>	ASTM 2794	40 minimum
	<b>Hardness</b>	ASTM3363	H minimum
<b>Environmental and Durability Tests</b>	<b>Neutral Salt Spray</b>	ASTM B117	<1/8" creep, no blisters, 500 hrs
	<b>Humidity</b>	ASTM D2247	No Change at 1000 hours
	<b>Exterior Durability</b>		No
<b>Test Conditions</b>	Testing has been determined under laboratory conditions using the following application properties and is for guidance only.		
	<b>Substrate</b>	CRS	
	<b>Pretreatment</b>	Iron Phosphate (B1000)	
	<b>Film thickness</b>	2.0 – 3.0 mils	
	<b>Cure schedule</b>	15 minutes at 375°F	
	Actual film performance will depend on the individual circumstances in which the product is used.		
<b>Pre-treatment</b>	Steel surfaces to be coated must be clean and free from grease. For maximum protection, it is essential to pre-treat components prior to the application of <b>Interpon 100</b> . Iron phosphate of ferrous metals improve corrosion resistance.		
<b>Application</b>	<b>Interpon 100</b> powders can be applied by manual or automatic electronic spray equipment. It is recommended that for consistent application and appearance product be fluidized during application. Unused powder can be reclaimed using suitable equipment and recycled through the coating system.		

**Additional Information**

This product is UL1332 “Coating, Organic, for Steel Enclosure-use Electrical Equipment – Component” recognized to UL Designation **U1556-1**. For UL1332 certification all requirements must be met as designated in File: DTOV2 MH13725. As such, following are the required application standards that must be met.

Cure Cycle (min)	Cure Window (°F)	Min. Film Thickness (mils)	Pre-Treatment(s) over			
			Cold Rolled Steel	Hot Rolled Steel	Galvanized Steel	Galvaneal Steel
20	350	2.5	5 Stage Iron Phosphate	No approval over this substrate	No approval over this substrate	No approval over this substrate
8	400					

No other substrate or pre-treatment may be used in U1556-1 designation.

**Key Product Attributes**

U1556-1 Designation

**Safety Precautions**

Please consult the Safety Datasheet (SDS).

**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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Product Name: AL403QF  
 Last Revision Date: 10/23/2020  
 Revision Number: 3  
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