

# Product Data Sheet

## AkzoNobel Powder Coatings

### Interpon 700 EL205QF Gray U1585-2

<b>Product Description</b>	<p><b>Interpon 700</b> is a range of polyester epoxy hybrid powder coatings designed for the interior environment that offers excellent corrosion resistance, hardness, and chemical resistance properties. <b>Interpon 700</b> polyester epoxy hybrid powders are available in a wide range of colors and gloss levels.</p>		
<b>Powder Properties</b>	<b>Chemical type</b>	Polyester-Epoxy Hybrid	
	<b>Appearance</b>	Smooth	
	<b>Gloss level (Gardner 60°)</b>	20 - 30	
	<b>Recommended Film thickness</b>	1.8 – 2.2 mil	
	<b>Specific gravity</b>	1.50 +/-0.05 g/cm <sup>3</sup>	
	<b>Coverage @ 1.0 mil</b>	128.2 sq.ft/lb/mil	
	<b>Storage</b>	Maximum 80°F	
	<b>Shelf life</b>	12 months, typical	
		<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	140
	<b>Hardness</b>	ASTM3363	H minimum
<b>Environmental and Durability Tests</b>	<b>Neutral Salt Spray</b>	ASTM B117	<1/8" creep, no blisters, at 500 hrs
	<b>Humidity</b>	ASTM D2247	No Change at 1000 hours
	<b>Exterior Durability</b>		No
<b>Test Conditions</b>	<p>Testing has been determined under laboratory conditions using the following application properties and is for guidance only.</p>		
	<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	
	<p>Actual film performance will depend on the individual circumstances in which the product is used.</p>		
<b>Pre-treatment</b>	<p>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 700</b>. Iron phosphate and zinc phosphate of ferrous metals improve corrosion resistance.</p>		
	<p>Aluminum substrate may require a conversion coating.</p>		
<b>Application</b>	<p><b>Interpon 700</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.</p>		

**Additional Information**

**Interpon 700** powders are available in bright aluminum finishes which are susceptible to scratching and finger marking. Protection by use of a clear polyester top coat is recommended when the coated article is to be subjected to physical or environmental changes. The top coat should ideally be applied within 2 hours of metallic coating, and gloves should be worn when handling metallic coated articles.

This product is UL1332 “Coating, Organic, for Steel Enclosure-use Electrical Equipment – Component” recognized to UL Designation **U1585-2**. 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	1.8	7 Stage Iron Phosphate	No approval over this substrate	7 Stage Zinc Phosphate G60, G40	7 Stage Zinc Phosphate A60, A40
10	400					

No other substrate or pre-treatment may be used in U1585-2 designation.

**Key Product Attributes**

U1585-2 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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<http://www.interpon.com/contact-us/>

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