

# Product Data Sheet

## AkzoNobel Powder Coatings

### Interpon Redox Active EE006QF (Formerly 40-2031) YELLOW PRIMER

**Product Description** **Interpon Redox Active** is a powder coating primer, totally free from Zinc. It is designed to give enhanced corrosion protection of mild steel and is an epoxy-polyester primer including active anticorrosive pigments.

The addition of these pigments provides a steel passivation effect to protect the substrate enhancing the performance when compared to other non-active systems.

<b>Powder Properties</b>	<b>Chemical type</b>	Thermosetting epoxy-polyester
	<b>Appearance</b>	Smooth
	<b>Gloss level (60°)</b>	75 - 85 units
	<b>Color</b>	Yellow
	<b>Recommended Film thickness</b>	2.0 – 3.0 mil
	<b>Specific gravity</b>	1.52 +/-0.05 g/cm <sup>3</sup>
	<b>Coverage @ 1.0 mil</b>	126.51 sq.ft/lb/mil
	<b>Application</b>	Electrostatic Spray
	<b>Storage</b>	Maximum 80°F Under dry, cool conditions
	<b>Shelf life</b>	12 months, typical
	<b>Curing schedule</b> (at object temperature)	See curing section

**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 film performance will depend on the individual circumstances in which the product is used.

<b>Substrate</b>	CRS
<b>Pretreatment</b>	Iron Phosphate (B1000)
<b>Film Thickness</b>	2.0 – 3.0 mils
<b>Curing Schedule</b> (with topcoat)	15 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>Corrosion Tests</b> Mild Steel	The results shown are based on tests which (unless otherwise indicated) have been carried out under laboratory conditions and are given for advice only, actual performance depends upon the circumstances under which the product is used.		
	Neutral Salt Spray	ASTM B117	Results are detailed in Table 1 of Appendix
<b>Pretreatment</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 Interpon Redox Plus. Iron phosphate and zinc phosphate of ferrous metals improve corrosion resistance.		
<b>Environmental and Durability Tests</b>	Humidity	ASTM D2247	No Change at 1000 hours
	Exterior Durability		Yes, when used proper Interpon topcoat.
<b>Application</b>	Interpon Redox Active is suitable for corona electrostatic spraying.		
	<b>Recommended film thickness</b>	2-3 mil. A good protection is linked with the recommended film thickness.	
	<b>Reclaim</b>	Unused powder can be reclaimed using suitable equipment and recycled through the coating system.	
<b>Curing</b>	<b>Interpon Redox Active</b> shows a wide curing range must allowing application on substrates of different nature and thicknesses.		
	Full curing:		
	400°F 6 min		
	375°F 8 min		
	350°F 10 min		
	325°F 15 min		
	Note: Failure to comply with the recommended curing conditions may affect the adhesion of the topcoat and cause degradation of the coating properties of the system. Parts coated with Interpon Redox Active should be handled carefully avoiding any surface contamination.		
<b>Safety Precautions</b>	This product is intended for use only by professional applicators in industrial environments and should not be used without reference to the relevant health and safety data sheet which Akzo Nobel has provided to its customers.		
<b>Disclaimer</b>	<b>IMPORTANT NOTE:</b> 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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### Appendix 1: Neutral Salt Spray Test

Coating System		Interpon Redox Active + Interpon 800
Conditions	Substrate	Steel 2 mm
	Pretreatment	Iron Phosphate (B1000)
	Primer thickness	2.0 – 3.0 mils
	Topcoat thickness	2.0 – 3.0 mils
	Adhesion on surface before test	Class 0
Neutral Salt Spray ASTM B117	<b>Time</b>	<b>Comments</b>
	500 hours	<1/8" creep, no blisters

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

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