

# Product Data Sheet

## AkzoNobel Powder Coatings

### Interpon Redox Plus BL115QF (Formerly 10-7793A) PRIMER GRAY U1555-4

**Product Description** **Interpon Redox Plus** is a pure high cross-linking epoxy powder primer protective barrier designed to give enhanced corrosion protection of mild steel, hot dip galvanized steel and Aluminium.

**Interpon Redox Plus** can also be used for exterior application as a duplex system in combination with an Interpon powder topcoat.

Key benefits: wide curing range, good mechanical properties, excellent edge coverage, good anti gassing properties, good topcoating capacity.

<b>Powder Properties</b>	<b>Chemical type</b>	Thermosetting epoxy
	<b>Appearance</b>	Smooth
	<b>Gloss level (gardner 60°)</b>	75+
	<b>Recommended Film thickness</b>	2.0 – 3.5 mil
	<b>Specific gravity</b>	1.45 +/-0.05 g/cm <sup>3</sup>
	<b>Application</b>	Electrostatic spraying
	<b>Storage</b>	Maximum 80°F Under dry, cool conditions
	<b>Shelf life</b>	At least 12 months from production date
	<b>Curing schedule</b>	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 product performance will depend upon the circumstances under which the product is used.

<b>Substrate</b>	CRS
<b>Pretreatment</b>	Iron Phosphate (B1000)
<b>Film Thickness</b>	2.0 – 3.5 mils
<b>Curing Schedule</b>	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	160 minimum
	<b>Hardness</b>	ASTM3363	H minimum

**Corrosion Tests**

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

**Environmental and Durability Tests****Humidity**

ASTM D2247

No Change at 1000 hours

**Exterior Durability**

Yes, when proper Interpon topcoat is used.

**Pre-treatment**

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 of ferrous metals improve corrosion resistance.

**Application**

**Interpon Redox Plus** 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.

**Curing**

**Interpon Redox Plus** shows a wide curing range must allowing application on substrates of different nature and thicknesses.

Object temperature	Composite curing		Full curing	
	Min	Max	Min	Max
200°F	3'	15'		
250°F	2'	10'		
350°F			10'	23'
375°F			6'	17'
400°F			4'	13'

**Additional Information**

This product is UL1332 "Coating, Organic, for Steel Enclosure-use Electrical Equipment – Component" recognized to UL Designation U1555-4. 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
10	375	1.7	3 Stage Iron Phosphate	No approval over this substrate	No approval over this substrate	No approval over this substrate

No other substrate or pre-treatment may be used in U1555-4 designation.

**Key Product attributes**

U1555-4 Approved

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**Safety Precautions**

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.

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**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.

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.

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**Appendix 1:** Neutral Salt Spray Test

Coating System		Interpon Redox Plus + Interpon 800
Conditions	Substrate	CRS
	Pretreatment	Iron Phosphate (B1000)
	Primer thickness	2.0 – 3.5 mils
Neutral Salt Spray ASTM B117	<b>Time</b>	<b>Notes</b>
	500 hours	<1/8" creep, no blisters