

# Product Data Sheet

## AkzoNobel Powder Coatings

### Interpon 100 HA000Q Interpon 100 White

<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>	Smooth	
	<b>Gloss level (Gardner 60°)</b>	85 min	
	<b>Recommended Film thickness</b>	3.0 – 6.0	
	<b>Specific gravity</b>	1.56 ± g/cm <sup>3</sup>	
	<b>Coverage @ 1.0 mil</b>	124 ft <sup>2</sup> /lb/mil	
	<b>Storage</b>	Maximum 80°F	
	<b>Shelf life</b>	12 months	
	<b>Curing schedule</b> (at object temperature)	15 min @ 350°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	160/160 (Direct/Indirect)
	<b>Hardness</b>	ASTM3363	2H
<b>Environmental and Durability Tests</b>	<b>Neutral Salt Spray</b>	ASTM B117	(Blasted Steel) <¼" creep @ 3528 hrs (Iron Phosphate) <¼" creep @ 2520 hrs (Zinc Phosphate) <¼" creep @ 4032 hrs
	<b>Humidity</b>	ASTM D2247	No Change at 1000 hours
	<b>Exterior Durability</b>	No	
<b>Test Conditions</b>	<p>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.</p>		
	<b>Substrate</b>	Cold Rolled Steel	
	<b>Pretreatment</b>	Grit Blasted to White Metal	
	<b>Film thickness</b>	3.0 – 10 mils	
	<b>Cure schedule</b>	15 minutes at 350°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 strongly recommended SSPC SP 10 / NACE No. 2 / SA2.5 Near White Metal Blast for <b>Interpon 100</b> .		
<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.		
<b>Approvals</b>	NSF/ANSI Standard 51 – Food Equipment Materials		
	NSF/ANSI Standard 61 – Drinking Water System Components <a href="https://info.nsf.org/Certified/PwsComponents/Listings.asp?Company=15490">https://info.nsf.org/Certified/PwsComponents/Listings.asp?Company=15490</a>		
	AS/NZS 4020 – Potable water certification for Australia and New Zealand		
	IKRAM – Potable water certification for Malaysia		
	MIL-PRF-32348 Type 1, Class 1 CARC Primer #17925 (sold as AA0037)		
	ISO 12944-C5M and ISO 12944-C5I primer		

Physical Resistance	Abrasion Resistance	ASTM D4060-07	70 mg loss (CS10, 1000g, 3000 cycles)
	Chip Resistance 7B	ASTM 3170-03	10-24 chips @ 70 psi
	Heat Resistance (Dry)		300°F
	Heat Resistance (Immerse Water)		200°F
	Scrape Adhesion	ASTM 2197	10 passes @ 10kg
	Falling Sand Abrasion	ASTM D968-05	No wear through to substrate after 690L @ 71.3 liters/mil
	Cathodic Disbondment	ASTM G95-07	Less than 15 mm (90 days) ambient temp
	Dielectric Strength		37KV/mm
Chemical Resistance	Chemical Substance	Percentage	Test Duration
	Acetone		1,000 hours
	Acid Mine Drainage		90 days – Discoloration
	Aluminum Sulfate @ 95°F	50%	14 days
	Ammonium Nitrate	10%	11,000 hours
	Ammonium Nitrate	30%	11,000 hours
	Ammonium Sulfate	10%	11,000 hours
	Ammonium Sulfate	30%	11,000 hours
	Benzine		11,000 hours
	Bleach (Household)		14 days
	Castor Oil		11,000 hours
	Deisel Fuel (No. 1)		14,000 hours
	Deionized Water		11,000 hours
	Ethylene Glycol		10,000 hours
	Gasoline		11,000 hours
	Hard Water		12 days
	Marcellus Produced Brine		90 days
	Methanol		4,600 hours
	Methyl Ethyl Ketone (MEK)		1,000 hours
	Nitric Acid	20%	14 days
	Phosphoric Acid		11,000 hours
	Salt Water	5% concentration (50,000 ppm)	11,000 hours
	Salt Water (Saturated)	26.5% concentration (265,000 ppm)	14,000 hours
	Sea Water	3.5% concentration (35,000 ppm)	2 years
	Sodium Chloride	10% concentration (100,000 ppm)	11,000 hours
	Sodium Hydroxide (Ambient – 113°F)	50%	14 days
	Sodium Hypochlorite – 14.4 % active Chlorine	Saturated	14 days
	Sodium Sulfate	15%	11,000 hours
Toluene		11,000 hours	
Urea		11,000 hours	
Vegetable Oil		11,000 hours	
Vegetable Oil (Ambient – 176°F)		10,000 hours	

Chemical Resistance (Cont'd)	Chemical Substance	Percentage	Test Duration	
	Vinasse (Ambient – 104°F)		14 days	
	Vinasse @ 180°F		14 days – Discoloration	
	Water - Demineralized		14 days	
Dry Chemical Resistance	Agriculture and Meal Storage	Alumina	Biomass	Cement
	Calcium Carbonate	Clay	Clay Fines	Coal / Coal Dust
	Coke	FGD and Limestone	Fertilizer (28-0-0 & 10-34-0)	
	Flour	Fly Ash	Frac Sand	Free Flowing Cement
	Lime	Free Flowing Sodium Bicarbonate	Lime	Lime Mixture
	Lime Kiln Dust	Limestone	Perlite	Plastic Resin
	Soda Ash	Sodium Chloride	Sand	Wood Ash
			Wood Chips	
Additional Information	HA000Q has excellent chemical resistance to substances with a pH of 4-14 at Ambient Temperature.			
	HA000Q can be used with ANSI / AWWA C652-02 tank cleaning methods 1, 2, and 3.			
Safety Precautions	Please consult the Safety Datasheet (SDS).			
Disclaimer	<p><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.</p> <p>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.</p>			
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Product Name: **HA000Q**  
 Last Revision Date: **27-Jun-2023**  
 Revision Number: **26**  
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