

Product Data Sheet

AkzoNobel Powder Coatings

Interpon HT 450 WN203QF (FORMERLY 99-7023) BLACK IRON

Product Description	Interpon HT 450 powder products are designed for high service temperature applications. These products retain their film integrity and offer substrate protection during continuous or intermittent exposure to elevated service temperatures ranging from approximately 600°F to 800°F.		
Powder Properties	Chemical type	Thermoset Silicone	
	Appearance	Smooth	
	Gloss level (Gardner 60°)	4-14	
	Recommended Film thickness	1.8 – 2.5 mils	
	Specific gravity	1.90 +/-0.05 g/cm³	
	Coverage @ 1.0 mil	101 sq.ft/lb/mil	
	Storage	Maximum 70°F in a sealed container	
	Shelf life	6 months, cold storage	
	Curing schedule (at object temperature)	15 min at 450°F.	
Mechanical Tests and Durability	Adhesion	ASTM D3359	4B or better
	Hardness	ASTM3363	2H minimum
	Impact resistance (Direct)	ASTM 2794	100 or better
	Flexibility	ASTM D522	N/A
	Exterior Durability	Yes	
		The data above is reflective of virgin, non-heat exposed coating	
Test Conditions	Testing has been determined under laboratory conditions using the following application properties and is for guidance only.		
	Substrate	Aluminized Steel	
	Pretreatment	None	
	Film thickness	1.8 – 2.5 mils	
	Cure schedule	15 minutes at 450°F	
		Actual film performance will depend on the individual circumstances in which the product is used.	
Pre-treatment	Proper substrate cleaning is critical to the performance of Interpon HT 450 . Pretreatment is not recommended for any Interpon HT 450 coating that will see service temperatures above 600°F.		
	Steel surfaces must be completely free of oil and grease, as well as scale and rust. Surface should have a water break free finish at minimum. For some applications, a grit blast may be adequate to increase adhesion.		
	Aluminum and aluminum steel surfaces must be completely free of oil and grease, as well as scale. Surface should have a water break free finish at minimum. Pre-baking may be necessary to drive off release agents in some porous aluminum castings.		

Application	Interpon HT 450 powders can be applied by manual or automatic electrostatic spray equipment. It is recommended that for consistent application and appearance the product be fluidized during application. Unused powder can be reclaimed using suitable equipment and recycled through the coating system. For more detailed information please contact an AkzoNobel technical service representative.
Additional Information	Interpon HT 450 powders are substrate sensitive and choice of substrate will effect heat resistance of the coating. Powder has been tested at recommended cure schedule, and deviation from that cure cycle may alter coating appearance and performance.
Key Product Attributes	
Safety Precautions	Please consult the Safety Datasheet (SDS).
Disclaimer	<p>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.</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> <p>Brand names mentioned in this data sheet are trademarks of or are licensed to AkzoNobel</p>

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