

Product Data Sheet

AkzoNobel Powder Coatings

Interpon A5150 NN103K

Product Description

Interpon A5150 is a series of standard durability powder coatings, formulated without TGIC, designed for exterior exposure. Tested against OEM specifications **Interpon A5150** exhibits excellent corrosion resistance and good gloss retention and resistance to colour change. **Interpon A5150** has been developed for chassis and chassis components for trucks.

Powder Properties

Chemical type	Polyester
Area of usage	Truck chassis and chassis parts
Particle Size	Custom manufactured
Appearance	Smooth
Colour	Hino Black
Gloss (60°)	?? GU
Density (g/cm³)	??
Stoving schedule	10 minutes at 180°C (time at object temperature)
Application	Electrostatic
Storage stability	Under dry, cool (< 25°C) conditions, at least 12 months from production date

Test Conditions

The results 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.

Substrate	Gold seal polished steel
Pretreatment	ZnPO ₄ phosphate
Film Thickness	90 ± 10 µm
Cure Schedule	10 minutes at 180°C

Mechanical Tests

Adhesion	ASTM D 3359	100/100 (2 mm crosshatch)
Erichsen Cupping	KS B 0812	≥ 6 mm
Flexibility	ASTM D 552	< 4 mm (conical mandrel)
Hardness	ASTM D 3363	Pass, no penetration to substrate

Corrosion Tests

Neutral Salt Spray	ASTM B 117	1000 h corrosion creep < 2 mm from scribe
Humidity Test	ASTM D 1735	240 h no blistering or loss of gloss
Distilled Water	ASTM D 870	240 h no blistering or loss of gloss

Chemical Tests

Artificial Testing	Generally good resistance to acids, alkalis and oils at normal temperatures.
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Exterior Durability

Chemical Resistance	Excellent-no chalking, slight loss of gloss after 12 months continuous exposure but no film breakdown or reduction in protective properties.
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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 the **Interpon A5150**. Iron Phosphate and Zinc Phosphate of ferrous metals improve corrosion resistance. Aluminium parts require a chromate or chromate-free conversion pre-treatment

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Application

Interpon A5150 powders can be applied by manual or automatic electrostatic 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.

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.

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 fulfill 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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Interpon A5150 – NN103K - Issue #2
Issued: 29.05.2013 Revision Date: 01.10.2015

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