Product Data Sheet

AkzoNobel Powder Coatings
Interpon Autobody A1000- YG001V- Red color

Product Description

Interpon Autobody is a series of durable polyester powder coatings designed for application onto automotive components. **Interpon Autobody** has been designed to display excellent protective properties including corrosion, humidity, chip resistance, acid spotting and resistance to weathering over suitably pre-treated substrates.

Powder Properties*

Chemical type	TGIC-free Polyester
Particle size	Suitable for electrostatic spray
Specific gravity	1.2 - 1.7 depending on colours
Storage	Dry cool conditions (below 30°C)
Shelf Life	12 months
Sales code	M/Y-Series
Stoving Schedule	10 mins at 200°C

Film properties

Mechanical and chemical tests carried out on iron phosphated steel panels.
All tests are performed on panels coated with 60-80 microns of powder coating stoved for 10 minutes at 200°C (object temperature).

Mechanical Tests*

Flexibility	(Bend Test) AS1580 402.1	Pass 3mm
Adhesion	(2mm Crosshatch) AS1580 408.4	Classification 1 maximum
Erichsen Cupping	BS3900-E4	Pass > 3mm
Pencil Hardness	AS1580 405.1	1F – minimum
Reverse Impact	AS3715 Section 2.5.8	Pass <=20InP

Chemical and Durability Tests*

Salt Spray	ASTM B117	Pass 336 hours - no corrosion creep more than 2mm from scribe
Humidity Resistance	AS3715 Section 2.5.7	Pass at 500 hrs - no blistering or loss of adhesion
Distilled water immersion	BS3900-F7 at 40°C	Pass – no blistering or loss of gloss after 240 hours
Exterior durability	Pass AS4506-2005	
Colour stability	Excellent for continuous exposure up to 120°C.	
Solvent/Chemical Resistance	Generally good resistance to acids, alkalis and oils at normal temperatures. Will soften slightly to MEK. Resistant to DGEE (diethylene glycol ethyl ether).	

Pre-treatment

For optimum coating performance the following pre-treatment is recommended prior to the application of Interpon Autobody. The pre-treatment should be used in accordance with the supplier's recommendations.

A. Aluminium	Multistage chrome chromate or chrome phosphate
B. Galvanised Steel	Multistage zinc phosphate or chromate
C. Steel	Grit blast to SA 2.5, 20-40µm blast profile, followed by multistage zinc or iron phosphate

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Application	**Interpon Autobody** powder coatings can be applied by manual or automatic electrostatic spray equipment. Unused or over-sprayed powder coating can be reclaimed and recycled through the coating system.
Additional Information	AkzoNobel Group has a policy not to use lead or other heavy metal based pigments in our range of powder coatings. As a result of this policy, the use of bright and deep yellow, orange, and red shades is not recommended for severe outdoor exposure where long term colour fastness is required. **Interpon Autobody** is designed for superior flow and outgassing properties. As a result of this unique formulation the fully cured film will show slight softening if tested for cure with MEK. For this reason MEK should not be used as a cure test solvent for **Interpon Autobody**. The recommended cure test solvent is DGEE (diethylene glycol ethyl ether). **Interpon Autobody**, cured according to the recommended cure schedule, will be resistant to DGEE.
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 AkzoNobel has provided to its customer. If for any reason a copy of the relevant health and safety data sheet is not immediately available the user should contact AkzoNobel to obtain a copy before using the product. Minimum safety precautions in dealing with all powder coatings are as follows. All dusts are respiratory irritants. Therefore, inhalation of the dust or of the vapors resulting from the cure should be avoided. Take steps to prevent skin contact, but should contact occur, wash skin with soap and water. In case of eye contact flush immediately with clean water and seek medical advice. Dust clouds of any finely divided organic material can be ignited with an electric spark or open flame. Dust and powder should not be allowed to build up on surfaces or ledges. Dust collection equipment should be used which has provision for adequate explosion release. All equipment should be electrically earthed to prevent build up of static. Users are recommended to follow the guidelines laid down in AS3754:1990, “Safe Application of Powder Coatings by Electrostatic Spraying”.
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. Unless otherwise agreed by us in writing, any contract to purchase products referred to in this brochure and any advice which we give in connection with the supply of products are subject to our standard conditions of sale. The information contained in this data sheet is liable to modification from time to time in the light of experience and our policy of continuous product development.** *** Typical minimum specifications. Performance may vary slightly between individual products.** **Brand names mentioned in this data sheet are trademarks of or are licensed to AkzoNobel**

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