Product Data Sheet

AkzoNobel Powder Coatings
Interpon A1243
AN100V

Product Description

Interpon A1243 for brake components combines toughness and durability with excellent corrosion and chemical resistance. They also come in a range of colours to meet the varied design needs for brake pads, brake discs, calipers and other wheel hardware that is visible in an open wheel design.

Powder Properties

Chemical type	Epoxy
Particle Size	Suitable for electrostatic spray
Density (g/cm³)	1.45 ± 0.05
Appearance	Smooth
Colour	Black
Gloss (60°)	55 GU
Stoving schedule (object temperature)	20 minutes at 180°C 15 minutes at 190°C 12 minutes at 200°C
Storage Stability	Under dry, cool (<35°C) conditions, at least 3 months from production date

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.

Substrate	Mechanical tests: Gold Seal polished steel Chemical & durability tests: Gold Seal lightweight
Pretreatment	Zinc Phosphate
Film Thickness	30 µm
Cure Schedule	20 minutes at 180°C

Mechanical Tests

Flexibility	ISO 6860 (Conical Mandrel)	Pass 3mm
Adhesion	BS EN ISO 2409 (2mm)	Gt 0
Erichsen Cupping	ISO1520	Pass >4mm
Hardness	BS EN ISO 1518 (2000gms)	Pass - no penetration to substrate Pass H – 2H
Impact	BS3900-E3 UNI 8901	Pass 2mm Pass 2 Joule D/R Pass 20 Kg x cm D/R

Chemical and Durability Tests

Salt Spray	ISO 7253	500 h, corrosion creep < 3 mm from scribe
Cyclic Humidity	ISO 6720-1:1998	1000 h, no blistering or loss of gloss
Distilled Water Immersion	ISO 2812-2:1993	240 h, no blistering or loss of gloss

Durability

Exterior Durability	Some chalking and loss of gloss after 3 months continuous outdoor exposure Protective properties retained. Not recommended for exterior use
Colour Stability at elevated temperatures	Fair - gradual yellowing of white and pastel shades on continuous exposure above 100°C
Chemical Resistance	Generally excellent resistance to most acids alkalis and common chemical substances at room temperature.

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Pretreatment	Aluminium, steel or Zintec surfaces to be coated must be clean and free from grease. Iron phosphate and particularly lightweight zinc phosphating of ferrous metals improves corrosion resistance. Aluminium substrates may require a chromate conversion coating.
Application	**Interpon A1243** powders can be applied by manual or automatic electrostatic spray equipment. 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.** **Brand names mentioned in this data sheet are trademarks of or are licensed to AkzoNobel**

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