

# Product Data Sheet

## AkzoNobel Powder Coatings

### Interpon A1243 EN222K

#### Product Description

The **Interpon A1243** series covers a wide range of powder coatings specifically designed to meet the extreme demands of automotive and heavy duty truck power train and brake parts. Demanding environments require high performance protection. **Interpon A1243** will enhance and protect automotive parts with excellent chemical, corrosion and chip resistance as well as the right aesthetic appearance exactly where it's needed.

#### Powder Properties

|                                   |  |
|-----------------------------------|--|
| <b>Chemical type</b>              | Epoxy - Polyester  |
| <b>Area of usage</b>              | Automotive brake parts   |
| <b>Particle size</b>              | Custom manufactured  |
| <b>Appearance</b>                 | Smooth, matt   |
| <b>Colour</b>                     | S.S. Black   |
| <b>Gloss (60°)</b>                | 18 ± 3 GU  |
| <b>Density (g/cm<sup>3</sup>)</b> | 1.4 – 1.8  |
| <b>Stoving schedule</b>           | 10 minutes at 180 °C (time at object temperature)  |
| <b>Application</b>                | Electrostatic spray  |
| <b>Storage stability</b>          | Under dry, cool (< 23°C) conditions, at least 24 months from production date (open boxes must be resealed) |

#### 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.

|                           |   |
|---------------------------|---|
| <b>Substrate</b>          | 0.6 mm EGI Panel                          |
| <b>Pretreatment</b>       | KS M 5000 Test method 1111,Zinc phosphate |
| <b>Cure schedule</b>      | 10 minutes at 180 °C                      |
| <b>Dry film thickness</b> | 70 ± 10 µm                                |

#### Mechanical Tests

|                          |                             |                          |
|--------------------------|-----------------------------|--------------------------|
| <b>Adhesion</b>          | ASTM D3359                  | No peeling               |
| <b>Flexibility</b>       | ASTM D522 (Conical Mandrel) | 5 mm                     |
| <b>Pencil Hardness</b>   | ASTM D3363                  | Mitsubishi F. No scratch |
| <b>Cupping</b>           | KS B 0812 (Erichsen)        | 3 mm                     |
| <b>Impact Resistance</b> | ASTM D 2794                 | 500g X 30cm. No Crack    |

#### Chemical tests

|                          |                         |                          |
|--------------------------|-------------------------|--------------------------|
| <b>Salt Spray</b>        | ASTM B117               | 240 hours, <2 mm         |
| <b>Humidity</b>          | ASTM D1735              | 240 hours. No blistering |
| <b>Acid Resistance</b>   | 5% CH <sub>3</sub> COOH | 24 hours. No change      |
| <b>Alkali Resistance</b> | 5% NaOH                 | 24 hours. No change      |
| <b>Distilled Water</b>   | ASTM D 870              | 240 hours. No Blistering |

#### 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 **Interpon A1243**. Iron Phosphate and Zinc Phosphate of ferrous metals improve corrosion resistance. Aluminium parts require a chromate conversion or chromate-free pretreatment.

# Interpon A1243 EN222K

---

## Application

**Interpon A1243** 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.

Brand names mentioned in this data sheet are trademarks of or are licensed to AkzoNobel

---

AkzoNobel Powder Coatings B.V. T +31 (0)71 308 6981  
Rijksstraatweg 31 (building 24) F +31 (0)71 318 6924  
PO Box 3 www.interpon.com  
2170 BA Sassenheim  
The Netherlands

Copyright © 2015 Akzo Nobel Powder Coatings Ltd. Interpon is a registered trademark of AkzoNobel  
Interpon A1243 – EN222K - Issue #1  
Issued: 27.08.2015 Revision Date:

**Interpon**<sup>®</sup>