

# Product Data Sheet

## AkzoNobel Powder Coatings

### Interpon A5160 ML512I

#### Product Description

**Interpon A5160** is a series of high durability powder coatings, formulated without TGIC, designed for exterior exposure. Tested against the most severe specifications **Interpon A5160** gives significantly improved gloss retention and resistance to colour change. **Interpon A5160** has been developed for chassis and chassis components for trucks.

#### Powder Properties

|                                   |   |
|-----------------------------------|---|
| <b>Chemical type</b>              | Polyester   |
| <b>Area of usage</b>              | Truck chassis   |
| <b>Particle Size</b>              | Custom manufactured   |
| <b>Appearance</b>                 | Smooth, satin   |
| <b>Colour</b>                     | Grey IC444 – RAL 7021   |
| <b>Gloss (60°)</b>                | 75 GU   |
| <b>Density (g/cm<sup>3</sup>)</b> | 1,32 ± 0,05   |
| <b>Stoving schedule</b>           | 15 minutes at 190°C (time at object temperature)<br>10 minutes at 200°C<br>8 minutes at 210°C |
| <b>Application</b>                | Electrostatic   |
| <b>Storage Stability</b>          | Under dry, cool (<35°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.

|                       |                              |
|-----------------------|------------------------------|
| <b>Substrate</b>      | Aluminum panels              |
| <b>Pretreatment</b>   | Bonder (722) yellow chromate |
| <b>Film Thickness</b> | 60 µm                        |
| <b>Cure Schedule</b>  | 15 minutes at 190°C          |

#### Mechanical Tests

|                         |                        |                                   |
|-------------------------|------------------------|-----------------------------------|
| <b>Adhesion</b>         | ISO 2409 (2 mm)        | Gt 0                              |
| <b>Erichsen Cupping</b> | ISO 1520               | ≥ 7 mm                            |
| <b>Impact</b>           | ISO 6272               | Pass 2.5 Joule D/R                |
| <b>Hardness</b>         | ISO 15284 (2000 g)     | Pass, no penetration to substrate |
| <b>Flexibility</b>      | ISO1519 (Cyl. mandrel) | Pass, 3 mm                        |

# Interpon A5160 ML512I

---

## Corrosion Tests

|   |   |  |
|---|---|--|
| <b>Salt Spray</b>                               | ISO 7253<br>(500 hr)  | Pass, no corrosion creep more than 3 mm from scribe                |
| <b>Acetic Acid Salt Spray</b>                   | ISO 9227<br>(1000 hr)   | Pass, no corrosion creep more than 2 mm from scribe                |
| <b>Cyclic Humidity</b>                          | ISO 6720-1<br>(1000 hr)   | Pass, no blistering or loss of gloss                               |
| <b>Distilled Water Immersion</b>                | ISO 2812-2<br>(240 hr)  | Pass - no blistering or loss of gloss                              |
| <b>Exterior Durability</b>                      | Up to 5 years Florida Exposure  | Excellent color and gloss retention performance (depends on shade) |
| <b>Colour Stability at Elevated temperature</b> |   | Very high  |
| <b>Chemical Resistance</b>                      | Generally good resistance to acids, alkalis and common organic substances at room temperature |  |
| <b>Sulphur Dioxide</b>                          | ISO 6270<br>(240 hr)  | Pass, no blistering, loss of gloss or discoloration                |

---

## Pretreatment

For maximum protection it is essential to pretreat components for exterior use prior to the application of **Interpon A5160**. Aluminium components should receive a full multi-stage chromate conversion coating to clean and condition the substrate. Detailed advice should be sought from the pretreatment supplier. Galvanised steel also requires multi-stage pretreatment using either zinc phosphate or chromate conversion. Degassing of galvanised steel prior to powder application is considered mandatory - follow the procedural advice of the pretreatment supplier

---

## Application

**Interpon A5160** 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. For the metallics we suggest to avoid any recycling of powder. For "special effect" any variation in application (tribo / corona; voltage) can bring to differences in final finish. The actual application parameters must be adapted and adjusted depending on the type of components and with each powder batch in order to give a finish in accordance with our colour standard.

---

## 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 A5160 - ML512I - Issue #5  
Issued: 15.05.2012 Revision Date: 29.06.2015

**Interpon**®