# Product Data Sheet

## AkzoNobel Powder Coatings

## Interpon D35

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| **Product Description** | **Interpon D35** is a series of durable powder coatings specially formulated TGIC- free for the use on architectural aluminum which conforms to the performance requirements of GB5237.4 specification.<br>**Interpon D35** is designed to offer significantly high gloss retention and resistance to color change combined with maximum film integrity to ensure long term cosmetic and functional protection.<br>**Interpon D35** powder coatings are available in a selected range of colors including pearlescent effects in gloss, satin and matte finishes. Fine and coarse textured are also available. | | |
| **Powder Properties** | **Chemical Type** | Polyester | |
| | **Appearance** | Smooth | |
| | **Particle Size** | **Suitable for electrostatic spray** | |
| | **Specific Gravity** | 1,3 - 1,7 g/cm³ | |
| | **Gloss** | ≥85% (depending on color) | |
| | **Storage** | Dry, cool conditions (open boxes must be resealed) | |
| | **Shelf Life** | 12 months below 25°C peak temperature<br>6 months below 30°C peak temperature | |
| | **Stoving Conditions** (at object temperature) | 10 minutes at 200°C<br>Failure to observe the curing conditions may cause differences in color, gloss, and/or the deterioration of the coating properties. | |
| **Mechanical Tests** | **Adhesion** | ASTM D3359 | Pass Gt0 |
| | **Erichsen cupping** | GB/T 9753 / ISO1520 | Pass, 3 mm no crack or detachment of film |
| | **Impact resistance** | ASTM D2794 | Pass, 30 InP |
| | **Bend Test** | ASTM D522 | Pass, 3 mm no crack |
| **Environmental and Durability Tests** | **Salt Spray** | ASTM B117 | Pass, 1000 hrs, 4 mm |
| | **Constant Climate Condensation** | ASTM D2247 / GB/T 1740 | 1000 hrs, no blistering or no detachment |
| | **Chemical (Acid) Resistance** | GB 5237.4-5.4.11 | 15 mins, no blistering or no detachment |
| | **Exterior Durability** | ISO2810/ ASTM D 657 | Pass, 1000 hrs |
| **Test Conditions** | Testing has been determined under laboratory conditions using the following application properties and is for guidance only. | | |
| | **Substrate** | Chromate conversion coated aluminum panels<br>Aluminum Q-panel (0.5-0.8 mm) | |
| | **Pretreatment** | Chromate | |
| | **Film thickness** | 60-80 microns (ISO 2360) | |

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| | **Cure schedule** | 10 minutes at 200° C (object temperature) |
| | Actual film performance will depend on the individiual circumstances in which the product is used. | |
| **Pre-treatment** | For maximum protection it is essential to pretreat components prior to the application of **Interpon D35**.<br>Aluminium components should receive the following pre-treatment in accordance of supplier's recommendation.<br><br>**Substrate**<br><br>Aluminum - Multi-stage chrome chromate or chrome phosphate<br>Galvanised Steel - Multi-stage zinc phosphate or chromate<br>Steel - Multi-stage zinc or iron phosphate | |
| **Application** | **Interpon D35** 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 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 fulfil 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.<br><br>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.<br><br>Brand names mentioned in this data sheet are trademarks of or are licensed to AkzoNobel | |

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