

# Product Data Sheet

## AkzoNobel Powder Coatings

### Interpon A2201 YZ9A BLACK YN202QF

|                                           |                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                             |                                                                                  |                                                   |
|-------------------------------------------|-----------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------|----------------------------------------------------------------------------------|---------------------------------------------------|
| <b>Product Description</b>                | <p><b>Interpon A2201</b> powders can be used for pillars and appliques, roof racks, grille guards, bumpers, hitches, mirror housings, and wiper arms all require protection from the environment as well as being visually harmonious with the overall design of a vehicle. <b>Interpon A2201</b> powders are super durable (&gt; two years Florida) and answer to the requested performance level specified by the OEMs. They are also chemical and corrosion resistant, protective against chipping from road debris, hardened against scratches, but flexible enough to handle always changing environmental cycles.</p> |                                                                                  |                                                   |
| <b>Powder Properties</b>                  | <b>Chemical type</b>                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                        | Polyester                                                                        |                                                   |
|                                           | <b>Area of usage</b>                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                        | Automotive trim parts                                                            |                                                   |
|                                           | <b>Appearance</b>                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                           | Matte black                                                                      |                                                   |
|                                           | <b>Gloss level (60°)</b>                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                    | 20.0 ± 5.0 GU                                                                    |                                                   |
|                                           | <b>Recommended Film Thickness (mils)</b>                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                    | 2.5 – 4.0                                                                        |                                                   |
|                                           | <b>Specific gravity (g/cm<sup>3</sup>)</b>                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                  | 1.53 ± 0.05                                                                      |                                                   |
|                                           | <b>Coverage (ft<sup>2</sup>/lb/mil)</b>                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                     | 125.69                                                                           |                                                   |
|                                           | <b>Storage</b>                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                              | ≤ 80°F / 26°C                                                                    |                                                   |
|                                           | <b>Shelf life</b>                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                           | 12 months from production date                                                   |                                                   |
|                                           | <b>Curing schedule</b><br>(at object temperature)                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                           | 15 - 20 minutes at 375°F<br>15 - 20 minutes at 380°F<br>10 - 15 minutes at 392°F |                                                   |
| <b>Mechanical Tests</b>                   | <b>Flexibility</b>                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                          | ASTM D522                                                                        | 1/4" Mandrel                                      |
|                                           | <b>Adhesion</b>                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                             | ASTM D3359                                                                       | 100%                                              |
|                                           | <b>Impact resistance</b>                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                    | ASTM D2794                                                                       | 80-120 in-lbs<br>(direct & reverse)               |
|                                           | <b>Hardness</b>                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                             | ASTM D3363                                                                       | H                                                 |
| <b>Environmental and Durability Tests</b> | <b>Neutral Salt Spray</b>                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                   | ASTM B117                                                                        | 336 h, no blistering and<br><1mm creep back       |
|                                           | <b>Humidity</b>                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                             | ASTM D2247                                                                       | 96 h, no blistering or loss of<br>adhesion        |
|                                           | <b>Exterior durability</b>                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                  | SAE J1976                                                                        | 4 years Florida exposure,<br>>80% gloss retention |
| <b>OEM approvals</b>                      | Ford                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                        | WSS-M2P180-C<br>WSS-M70J5-B                                                      |                                                   |

|                               |                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                             |
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| <b>Test Conditions</b>        | Testing has been determined under laboratory conditions using the following application properties and is for guidance only.                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                |
| <b>Substrate</b>              | CRS (cold rolled steel)                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                     |
| <b>Pretreatment</b>           | Iron Phosphate (B1000), Zinc Phosphate (B952), Electrocoat                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                  |
| <b>Film thickness</b>         | 2.5 – 4.0 mils                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                              |
| <b>Cure schedule</b>          | 20 minutes at 380°F                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                         |
| <b>Pre-treatment</b>          | Actual film performance will depend on the individual circumstances in which the product is used.<br>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 <b>Interpon A2201</b> . Iron Phosphate and Zinc Phosphate of ferrous metals improve corrosion resistance. Aluminum parts require a chromate or chromate-free conversion pre-treatment.                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                      |
| <b>Application</b>            | <b>Interpon A2201</b> 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.                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                               |
| <b>Additional information</b> | Exterior durable                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                            |
| <b>Safety Precautions</b>     | 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.                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                          |
| <b>Disclaimer</b>             | <p><b>IMPORTANT NOTE:</b> 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.</p> <p>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.</p> <p>Brand names mentioned in this data sheet are trademarks of or are licensed to AkzoNobel</p> |

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Author: G. Budurlean