

# Product Data Sheet

## AkzoNobel Powder Coatings

### Interpon 600

### JG07CQF

### RAL 3027 Raspberry Red U 1578-1

|                                           |                                                                                                                                                                                                                                                                                                                                          |                        |                                    |
|-------------------------------------------|------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------|------------------------|------------------------------------|
| <b>Product Description</b>                | <b>Interpon 600</b> is a range of TGIC powder coatings designed for exterior exposure that offer excellent light and weather resistance from a single coat finish on a variety of substrates.                                                                                                                                            |                        |                                    |
| <b>Powder Properties</b>                  | <b>Chemical type</b>                                                                                                                                                                                                                                                                                                                     | Polyester TGIC         |                                    |
|                                           | <b>Appearance</b>                                                                                                                                                                                                                                                                                                                        | Smooth                 |                                    |
|                                           | <b>Gloss level (Gardner 60°)</b>                                                                                                                                                                                                                                                                                                         | >= 80.0 UN             |                                    |
|                                           | <b>Recommended Film thickness</b>                                                                                                                                                                                                                                                                                                        | 2.0 – 3.0 mils         |                                    |
|                                           | <b>Specific gravity</b>                                                                                                                                                                                                                                                                                                                  | 1.40 +/-0.05 g/cm³     |                                    |
|                                           | <b>Coverage @ 1.0 mil</b>                                                                                                                                                                                                                                                                                                                | 137 sq.ft/lb/mil       |                                    |
|                                           | <b>Storage</b>                                                                                                                                                                                                                                                                                                                           | Maximum 80°F           |                                    |
|                                           | <b>Shelf life</b>                                                                                                                                                                                                                                                                                                                        | 12 months, typical     |                                    |
|                                           | <b>Curing schedule</b><br>(at object temperature)                                                                                                                                                                                                                                                                                        | 8 minutes at 375°F     |                                    |
| <b>Mechanical Tests</b>                   | <b>Flexibility</b>                                                                                                                                                                                                                                                                                                                       | ASTM D522              | 1/8"                               |
|                                           | <b>Adhesion</b>                                                                                                                                                                                                                                                                                                                          | ASTM D3359             | 100%                               |
|                                           | <b>Impact resistance (Direct)</b>                                                                                                                                                                                                                                                                                                        | ASTM 2794              | 140-160 in.lbs.                    |
|                                           | <b>Hardness</b>                                                                                                                                                                                                                                                                                                                          | ASTM3363               | H min.                             |
| <b>Environmental and Durability Tests</b> | <b>Neutral Salt Spray</b>                                                                                                                                                                                                                                                                                                                | ASTM B117              | <1/16" creep, no blisters, 500 hrs |
|                                           | <b>Humidity</b>                                                                                                                                                                                                                                                                                                                          | ASTM D2247             | No Change at 1000 hours            |
|                                           | <b>Exterior Durability</b>                                                                                                                                                                                                                                                                                                               | Yes                    |                                    |
| <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                    |                                    |
|                                           | <b>Pretreatment</b>                                                                                                                                                                                                                                                                                                                      | Iron Phosphate (B1000) |                                    |
|                                           | <b>Film thickness</b>                                                                                                                                                                                                                                                                                                                    | 2.0 – 3.0 mils         |                                    |
|                                           | <b>Cure schedule</b>                                                                                                                                                                                                                                                                                                                     | 8 minutes at 375°F     |                                    |
|                                           | Actual film performance will depend on the individual circumstances in which the product is used.                                                                                                                                                                                                                                        |                        |                                    |
| <b>Pre-treatment</b>                      | 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 600</b> . Iron phosphate and zinc phosphate of ferrous metals improve corrosion resistance.<br><br>Aluminum substrate may require a chromate conversion coating. |                        |                                    |
| <b>Application</b>                        | <b>Interpon 600</b> powders can be applied by manual or automatic electronic 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.                                 |                        |                                    |

#### Additional Information

**Interpon 600** powders have no chalking and slight gloss loss after 12 months Florida exposure but no film breakdown or reduction in protective properties.

This product is UL1332 "Coating, Organic, for Steel Enclosure-use Electrical Equipment – Component" recognized to UL Designation **U1578-1**. For UL1332 certification all requirements must be met as designated in File: DTOV2 MH13725. As such, following are the required application standards that must be met.

| Cure Cycle (min) | Cure Window (°F) | Min. Film Thickness (mils) | Pre-Treatment(s) over  |                                 |                                 |                                 |
|------------------|------------------|----------------------------|------------------------|---------------------------------|---------------------------------|---------------------------------|
|                  |                  |                            | Cold Rolled Steel      | Hot Rolled Steel                | Galvanized Steel                | Galvaneal Steel                 |
| 15               | 375              | 1.7                        | 3 Stage Iron Phosphate | No approval over this substrate | 7 Stage Zinc Phosphate G60, G40 | 7 Stage Zinc Phosphate A60, A40 |
| 25               | 425              |                            |                        |                                 |                                 |                                 |

No other substrate or pre-treatment may be used in U1578-1 designation.

#### Safety Precautions

Please consult the Safety Datasheet (SDS).

#### 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.

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