

# Interpon 200

**Product Description:** **Interpon 200** is a series of polyurethane-based powder coatings designed for the exterior environment offering excellent corrosion resistance and flexibility properties. Exceptionally smooth flow and high gloss make **Interpon 200** powders ideal for applications where a high level of aesthetic finish is required.

|                           |                                       |   |
|---------------------------|---------------------------------------|---|
| <b>Powder Properties:</b> | <b>Chemical type</b>                  | Polyurethane                                  |
|                           | <b>Particle size</b>                  | Suitable for electrostatic spray              |
|                           | <b>Specific gravity</b>               | 1.2-1.7 g/cm <sup>3</sup> depending on colour |
|                           | <b>Storage</b>                        | Dry cool conditions below 35°C                |
|                           | <b>Shelf life</b>                     | 12 months                                     |
|                           | <b>Sales Code</b>                     | P-series                                      |
|                           | <b>Stoving schedule<sup>(a)</sup></b> | 20 minutes at 180°C                           |
|                           | (object temperature)                  | 10 minutes at 200°C<br>8 minutes at 210°C     |

**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>Mechanical Tests:</b> | <b>Substrate</b>        | Mechanical tests: Gold Seal polished steel<br>Chemical & durability tests: Gold Seal lightweight |                                    |
|                          | <b>Pretreatment</b>     | Zinc phosphate   |                                    |
|                          | <b>Film Thickness</b>   | 50 microns   |                                    |
|                          | <b>Stoving</b>          | 8 minutes at 210°C (object temperature)  |                                    |
|                          | <b>Flexibility</b>      | ISO 6860<br>(Conical Mandrel)  | Pass 3mm                           |
|                          | <b>Adhesion</b>         | ISO 2409<br>(2mm Crosshatch)   | Gt 0                               |
|                          | <b>Erichsen Cupping</b> | ISO 1520   | Pass >7mm                          |
|                          | <b>Hardness</b>         | BS EN ISO 1518<br>(2000gms)  | Pass - no penetration to substrate |
|                          | <b>Impact</b>           | BS3900-E3  | Pass 2.5mm                         |

|                                       |  |                           |   |
|---------------------------------------|--|---------------------------|---|
| <b>Chemical and Durability Tests:</b> | <b>Salt Spray</b>                                | ISO 7253<br>(250 hours)   | Pass - no corrosion creep more than 2mm from scribe   |
|                                       | <b>Cyclic Humidity</b>                           | DIN 50017<br>(1000 hours) | Pass - no blistering or loss of gloss   |
|                                       | <b>Distilled Water Immersion</b>                 | BS3900-F7<br>(240 hours)  | Pass - no blistering or loss of gloss   |
|                                       | <b>Exterior Durability</b>                       |                           | Excellent - non chalking, slight loss of gloss after 12 months continuous exposure but no film breakdown or reduction in protective properties. |
|                                       | <b>Colour Stability at elevated temperatures</b> |                           | Excellent for continuous exposure up to 150°C   |
|                                       | <b>Chemical Resistance</b>                       |                           | Generally excellent resistance to most acids, alkalis and oils at normal temperatures   |

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**Pretreatment:** Aluminium, steel or Zintec surfaces to be coated must be clean and free from grease. Iron phosphate and particularly lightweight zinc phosphating of ferrous metals improves corrosion resistance.

Aluminium substrates may require a chromate conversion coating.

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**Application:** **Interpon 200** 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.

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**Additional Information:** **Interpon 200** polyurethane powders are available in a wide range of colours and gloss levels to suit different applications. Polyurethane powders release a small amount (1.5%) of e- caprolactam on stoving. Care should be taken to ensure that working concentrations of caprolactam are kept below 25mg/m<sup>3</sup>.

**Interpon 200** powders are available in bright aluminium finishes which are susceptible to scratching and finger marking. Protection by use of a clear polyester top coat is recommended when the coated article is to be subjected to physical damage or environmental damage. The top coat should ideally be applied within 2 hours of the metallic coating and gloves should be worn when handling the metallic coated articles. For further details on the use of metallic powder coatings please contact Akzo Nobel.

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**Safety Precautions:** When using do not eat, drink or smoke. Do not breathe the dust. In case of insufficient ventilation wear suitable respiratory equipment. For further information please refer to the specific product Material Safety Data Sheet (MSDS).

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**Disclaimer:** The information given in this sheet is not intended to be exhaustive and any person using the product for any purpose other than that specifically recommended in this 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. Whilst we endeavour to ensure that all advice we give about the product (whether in this sheet or otherwise) is correct we have no control over either the quality or condition of the substrate or the many factors affecting the use and application of the product. Therefore, unless we specifically agree in writing to do so, we do not accept any liability whatsoever or howsoever arising for the performance of the product or for any loss or damage (other than death or personal injury resulting from our negligence) arising out of the use of the product. The information contained in this sheet is liable to modification from time to time in the light of experience and our policy of continuous product development.