# Product Datasheet

## BU Powder Coatings

## Interpon EH

**Product Description**

**Interpon EH (Euro Hybrid)** is a series of epoxy/polyester hybrid powder coatings offering improved colour, UV-light and heat stability compared to the **Interpon 100** range of pure epoxies, whilst maintaining an optimum combination of decorative and protective qualities.

**Interpon EH** powders are available in a wide range of RAL colours, in gloss version.

**Powder Properties**

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| **Chemical type** | Epoxy/Polyester |
| **Particle Size** | Suitable for electrostatic spray |
| **Gloss** | 90±5 (60$^{O}$) |
| **Specific gravity** | 1.2-1.7 g/cm³ depending on colour |
| **Storage** | Dry cool conditions below 35°C |
| **Shelf life** | 12 months |
| **Sales Code** | **E**-series |
| **Stoving schedule** (object temperature) | 20 minutes at 160°C (minimum curing cycle)<br>10 minutes at 180°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.

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| **Substrate** | Mechanical tests: Gold Seal polished steel<br>Chemical & durability tests: Gold Seal lightweight |
| **Pretreatment** | Zinc phosphate |
| **Film Thickness** | 60 microns |
| **Stoving** | 10 minutes at 180$^{O}$C (object temperature) |

**Mechanical Tests**

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| **Flexibility** | BS3900-E11 (Conical Mandrel)<br>ISO 1519/73 (E) (Cylindrical Mandrel) | Pass 3mm<br>Pass 3/16” |
| **Adhesion** | BS3900-E6 (2mm Crosshatch)<br>DIN 53151 (2mm Crosshatch) | Class 0<br>GT-0 >95% |
| **Erichsen Cupping** | BS3900-E4 | Pass >6mm |
| **Hardness** | BS3900-E2 (2000 gr)<br>ASTM D3363/74 (Pencil) | Pass - no penetration to substrate<br>Pass H-2H |
| **Impact** | BS3900-E3<br>UNI8901 | Pass 3 Joules D/R<br>Pass 30Kg x cm D/R |

**Chemical and Durability Tests**

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| **Salt Spray** | ASTM B117 (500 hours) | Pass - no corrosion creep more than 3mm from scribe |
| **Cyclic Humidity** | BS3900-F2 (1000 hours) | Pass - no blistering or loss of gloss |
| **Distilled Water Immersion** | BS3900-F7 (240 hours) | Pass - no blistering or loss of gloss |
| **Exterior Durability** | Some chalking & colour change after 6 months continuous outdoor exposure. Protective properties not impaired. Not recommended for exterior use | |
| **Colour Stability at elevated temperatures** | Good - satisfactory for continuous exposure up to 125 ºC | |
| **Chemical Resistance** | Generally excellent resistance to most diluted acids and alkalis or 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.<br><br>Aluminium substrates may require a chromate conversion coating. |
| **Application** | **Interpon EH** powders can be applied by manual or automatic electrostatic spray equipment, corona or tribocharging. Unused powder can be reclaimed using suitable equipment and recycled through the coating system. For metallics powders it is suggested that powder recycling is avoided. In the case of 'special effects' powders , any variation in application parameters (tribo/corona/voltage) can result in variations in the final finish. Application parameters must be adapted and adjusted depending on the type of components and also with each powder batch, in order to give a finish in accordance with our colour standard. |
| **Safety Precautions** | Please consult the Material Safety Datasheet (MSDS) |

**FOR PROFESSIONAL USE ONLY**

**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 advice 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.



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