

Product Datasheet



Powder Coatings

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Interpon 700 gloss

Local Code – CEP series - Group Code E series

Product Description:

Interpon 700 Gloss is a series of epoxy/polyester hybrid powder coating offering good colour and heat stability, whilst maintaining an optimum combination of decorative and protective qualities for an interior environment.

Interpon 700 powders are available in the full range of colours in gloss, reduced gloss, textured, structured, hammer or metallic finishes. Other special finishes can be custom matched to the user's requirements.

The information given in this datasheet is generic for the range Interpon 700. Specific products within the range can vary from the generic. For these products, individual data sheets are available.

Powder Description:

	Result	Method
Chemical type	Epoxy/polyester hybrid	
Gloss	80% min (60° head)	ASTM D523-89
Specific Gravity	1.2 - 1.8g/cm ³ depending on colour	Theoretical
Particle size		Suitable for electrostatic spray
Storage		Dry cool conditions below 25°C
Shelf Life		12 months

Test Conditions:

The test 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.

Substrate	Mechanical tests: Gold Seal polished steel	Chemical & durability tests: Gold Seal lightweight
Pre-treatment	Zinc Phosphate	
Film Thickness	60 – 70 microns	ISO 2360
Stoving (object temperature)	10 minutes at 180°C	

Mechanical Chemical and Durability Tests:

Adhesion	GT-0	ISO 2409 (2mm Crosshatch)
Flexibility (conical Mandrel)	Pass 3mm	ISO 6860
Impact	Pass 5 joules direct and reverse	ASTM D2794
Hardness	Pass – no penetration to substrate (2000gms)	ISO 1518
Salt Spray	Pass – no corrosion creep more than 3mm from scribe	ASTM B117 (500 hours)
Cyclic Humidity	Pass – no blistering or loss of gloss	DIN 50017 (1000 hours)
Exterior Durability	Some chalking after 6-12months continuous outdoor exposure but less than pure epoxies. Protection properties not impaired.	
Colour stability at elevated temperatures	Good - satisfactory for continuous exposure up to 125°C	
Chemical Resistance	Generally excellent resistance to most acids, alkalis and oils at normal temperatures	

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Pre-treatment:	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. <i>Detailed advice should be sought from the pre-treatment supplier.</i>
Application:	Interpon 700 Gloss powders including metallic and special effect powders can be applied by manual or automatic corona spray equipment. However, different electrostatic gun types may exert different charging characteristics and hence affect the appearance. Below are starting point application parameters: - <i>Fluidising air pressure</i> 0.4-1.0kg/cm ² - <i>Transport air pressure</i> 0.4-0.8 kg/cm ² - <i>Additional air pressure</i> 0.4-0.8 kg/cm ² - <i>Voltage</i> 60-80kV With "special effect" powders we recommend the use of flat jet spray nozzles. The actual application parameters must be adapted and adjusted depending on the type of application equipment; component and with each powder batch in order to give a finish in accordance with our colour standard. For manual application it is essential to ensure that an even film thickness is applied and in all instances sinuous gun movements should be avoided. It is considered standard practice in the industry where colour or finish accuracy is vital, to prepare a test panel of the proposed colour using the supplied coating with the coating/curing facilities that will be used to complete the job so as to ensure satisfaction before commencing the job.
Curing	Cure window: 16 minutes at 170°C; 10 minutes at 180°C; 6 minutes at 200°C Note! Cure temperatures given refers to the substrate temperature. The flow of the coatings can be affected if the cure temperature rises too slowly. Over baking can cause yellowing of lighter colours.
Recycling	Unused powder can be reclaimed using suitable equipment and recycled through the coating system. However, due to the nature of the product, care should be taken, by means of sprayouts, to ensure that reclaimed powder has good colour and gloss uniformity as well as consistency of finish when compared to original virgin material. It is important to ensure that the powder is not contaminated with any other powder, as the contaminant will show up as specks in the coating finish.
Recommended film thickness	60-70 Microns. Due to the limited opacity of certain bright colours (yellows, oranges and clean reds) it is necessary to apply a higher film thickness. This would vary per colour and may require a film thickness up to 110 microns to achieve reasonable coverage. Please contact our technical service department for more information.
Safety Precautions	Please consult the material safety data sheet PC010

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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

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time to time in the light of experience and our policy of continuous product development.