

# Interpon 700

**Product Description:** **Interpon 700** 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 700** powders are available in the full range of colours in gloss, reduced gloss, textured, aluminium and other special finishes or can be custom matched to the user's requirements.

<b>Powder Properties:</b>	<b>Chemical type</b>	Epoxy/Polyester
	<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 25°C
	<b>Shelf life</b>	12 months
	<b>Sales Code</b>	E-series
	<b>Stoving schedule<sup>(a)</sup></b>	20 minutes at 160°C
	(object temperature)	10 minutes at 180°C
		6 minutes at 200°C
		(a) For full matt powders add 5 minutes to times shown. For high reactivity (HR) powders see overleaf

**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>Substrate</b>	Mechanical tests: Gold Seal polished steel Chemical & durability tests: Gold Seal lightweight	
<b>Pretreatment</b>	Zinc phosphate	
<b>Film Thickness</b>	50 microns	
<b>Stoving</b>	6 minutes at 200°C (object temperature)	

<b>Mechanical Tests:</b>	<b>Adhesion</b>	BS EN ISO2409	Gt 0
		(2mm Crosshatch)	
	<b>Erichsen Cupping</b>	ISO1520	Pass >7mm
	<b>Hardness</b>	BS EN ISO 1518	Pass - no penetration to substrate
		(2000gms)	
	<b>Impact</b>	BS3900-E3	Pass 2.5mm
	<b>Flexibility</b>	ISO6860	Pass 3mm
		(Conical Mandrel)	

<b>Chemical and Durability Tests:</b>	<b>Salt Spray</b>	ISO 7253	Pass - no corrosion creep more than 2mm from scribe
		(250 hours)	
	<b>Cyclic Humidity</b>	BS3900-F2	Pass - no blistering or loss of gloss
		(1000 hours)	
	<b>Distilled Water Immersion</b>	BS3900-F7	Pass - no blistering or loss of gloss
		(240 hours)	
	<b>Exterior Durability</b>	Some chalking after 6-12 months continuous outdoor exposure but less than pure epoxies. Protective properties not impaired	
	<b>Colour Stability at elevated temperatures</b>	Good - satisfactory for continuous exposure up to 125°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 700** 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 700** 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.

**Interpon 700HR** (High Reactivity) powders are also available for use where a lower stoving temperature or shorter curing schedule is required.

**Sales code:** F-Series

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**Stoving schedule:** 15 minutes at 160°C  
(object temperature) 5 minutes at 180°C

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**Shelf life:** 6 months

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For further details on powder properties and film performance of **Interpon 700HR** 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.