Interpon 700 *AS*

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.

Interpon 700 *AS* powders share the properties of standard **Interpon 700** powders, but compared to conventional metallic and special effect powders, **Interpon 700** *AS* grade products have improved reproducibility between application conditions, and improved stability of colour, gloss and effect when recycled.

Powder Properties:

Chemical type	Epoxy/Polyester
Particle size	Suitable for electrostatic spray
Specific gravity	1.2-1.7 g/cm³ depending on colour
Storage	Dry cool conditions below 25°C
Shelf life	12 months
Sales Code	E-series
Stoving schedule[(a)] (object temperature)	20 minutes at 160°C 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.

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

Mechanical Tests:

Flexibility	ISO6860 (Conical Mandrel)	Pass 3mm
Adhesion	BS EN ISO 2409 (2mm Crosshatch)	Gt 0
Erichsen Cupping	ISO1520	Pass >7mm
Hardness	BS EN ISO 1518 (2000gms)	Pass - no penetration to substrate
Impact	ASTM D2794	Pass 2.5mm

Chemical and Durability Tests:

Salt Spray	ISO7253 (250 hours)	Pass - no corrosion creep more than 2mm 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 after 6-12 months continuous outdoor exposure but less than pure epoxies. Protective 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.

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.

Application:

For all grades:
Interpon 700 *AS* products are suitable for application with corona electrostatic spray equipment. Tribostatic spray grades are available for some finishes on request. The actual application parameters must be adapted and adjusted depending on the type of component and with each powder batch in order to give a finish in accordance with our colour standard. The use of direct box feed equipment may not reproduce fully the finish on our colour standard. To ensure powder homogeneity, empty the boxes totally into the tray or feed hopper. Only one spray run and one batch should be used for components that are going to be simultaneously visible following assembly/fabrication. For manual application it is essential to ensure that an even film thickness is applied.

We recommend the use of flat jet spray nozzles for all metallic and metallic-effect products.

This product may be recovered and recycled on most common equipment subject to normal controls on ratios of recycled to virgin powder. Akzo Nobel should be consulted for specific recommendations on recycle ratios for this product, but in any circumstances the recycled: virgin ratio should not exceed 1:5.

Additional Information:

Bright aluminium finish grades of **Interpon 700** *AS* are susceptible to scratching and finger marking. Protection by use of a clear polyester topcoat is recommended when the coated article is to be subjected to physical or environmental damage. When overcoating, it is recommended that the powder is “green” or only partially cured at 160°C to maximise intercoat adhesion. The topcoat 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.

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).

Disclaimer:

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