

Interpon 100

Product Data Sheet

Product Description: **Interpon 100** is a range of epoxy based powder coatings designed to give optimum mechanical performance and exceptional protective qualities on fabricated metal items and other metal componentry where long term exposure to ultra violet light or exterior weathering is not anticipated. **Interpon 100** powder coatings are available in gloss, satin, matt and textured finishes in a range of colours.

Powder properties*:	Chemical type	Epoxy
	Particle size	Suitable for electrostatic spray
	Specific gravity	1.2-1.7 g/cm ³ depending on colours
	Storage	Dry cool conditions (below) 25°C
	Shelf Life	12 months
	Sales code	A-Series
	Stoving Schedule	20 min at 160°C or 10 min at 180°C or 5 min at 200°C (Object temperature) Interpon 100 matt powder coatings <u>must</u> be cured for 10 min at 200°C.

Film properties: Mechanical tests carried out on steel panels. Chemical and durability tests carried out on lightweight zinc phosphated steel panels.
All tests performed on panels coated with 50 microns film of gloss finish powder stoved for 10 minutes at 180°C (metal temperature).
Matt and textured finishes may show lower values for mechanical performance.

Mechanical tests*:	Flexibility	(Bend Test) AS1580 402.1	Pass 3mm
	Adhesion	(2mm Crosshatch) AS1580 408.4	Classification 1 maximum
	Erichsen Cupping	BS3900-E4	Pass > 7mm
	Pencil Hardness	AS1580 405.1	F - minimum
	Reverse Impact resistance	AS3715 Section 2.5.8	Pass 2.5 Nm

Chemical and durability Tests*:	Salt Spray	AS3715 Section 2.5.10	Pass 250 hours - no corrosion creep more than 2mm from scribe
	Humidity Resistance	AS3715 Section 2.5.7	Pass at 500 hrs - no blistering or loss of adhesion
	Distilled water immersion	BS3900-F7 at 40°C	Pass 250 hours blistering or loss of gloss

Exterior durability Some chalking and loss of gloss after several months continuous outdoors exposure.
However the protective properties are retained.

Colour stability at elevated temp. Fair, gradual yellowing of white and pastel shades on continuous exposure up to 120°C.

Solvent/Chemical Resistance: Generally excellent resistance to acids, alkalis and oils at normal temperatures.

Pretreatment: Aluminium, steel or zinc surfaces to be coated must be clean and free from grease. Iron phosphate and particularly lightweight zinc phosphating of ferrous metals is recommended to improve corrosion resistance. Aluminium substrates require a chromate conversion coating, to improve corrosion resistance.

Application: **Interpon 100** powder coatings can be applied by manual or automatic electrostatic spray equipment. Unused powder coating can be reclaimed and recycled through the coating system.

Additional Information: Akzo Nobel Pty Limited has a policy not to use lead or other heavy metal based pigments in our range of powder coatings.

Safety Precautions: This product is intended for use only by professional applicators in industrial environments and should not be used without reference to the relevant health and safety data sheet which Akzo Nobel has provided to its customer. If for any reason a copy of the relevant health and safety data sheet is not immediately available the user should contact Akzo Nobel to obtain a copy before using the product. Minimum safety precautions in dealing with all powder coatings are as follows.

All dusts are respiratory irritants. Therefore, inhalation of the dust or of the vapours resulting from the cure should be avoided. Take steps to prevent skin contact, but should contact occur, wash skin with soap and water. In case of eye contact flush immediately with clean water and seek medical advice. Dust clouds of any finely divided organic material can be ignited with an electric spark or open flame. Dust and powder should not be allowed to build up on surfaces or ledges. Dust collection equipment should be used which has provision for adequate explosion release. All equipment should be electrically earthed to prevent build up of static. Users are recommended to follow the guidelines laid down in the AS3754:1990, "Safe Application of Powder Coatings by Electrostatic Spraying".

Disclaimer: Unless otherwise agreed by us in writing, any contract to purchase products referred to in this brochure and any advice which we give in connection with the supply of products are subject to our standard conditions of sale. The information contained in this data sheet is liable to modification from time to time in the light of experience and our policy of continuous product development.

* Typical minimum specifications. Performance may vary slightly between individual products.