

## Interpon D25 Gloss

**Product Description:** Interpon D25 is a series of superdurable powder coatings for use on architectural aluminium and galvanised steel.

All Interpon D25 powders are formulated to meet fully the requirements of BS6496:1984, BS6497:1984, Qualicoat Class 1 and GSB.

Interpon D25 gives excellent exterior durability and colour retention.

Interpon D25 powders are available in a wide range of RAL and BS shades in Gloss, Satin and Matt finishes. Other products in the Interpon D25 series are also available.

<b>Powder Properties:</b>	<b>Chemical type</b>	Polyester
	<b>Gloss</b>	85±5
	<b>Particle size</b>	Suitable for Tribo and Corona application
	<b>Specific gravity</b>	1.3-1.7 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>	D-series
	<b>Stoving schedule</b> (object temperature)	12 minutes at 170°C 8 minutes at 180°C 5 minutes at 190°C 3 minutes at 200°C 2 minutes at 210°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.

<b>Substrate</b>	Aluminium
<b>Pretreatment</b>	Chromate
<b>Film Thickness</b>	60 microns
<b>Stoving</b>	3 minutes at 200°C (object temperature)

<b>Mechanical Tests:</b>	<b>Adhesion</b>	ISO2409 (2mm Crosshatch)	Pass - Classification 0
	<b>Erichsen Cupping</b>	ISO1520	Pass 5mm
	<b>Hardness</b>	ISO2815 (Buchholz)	Pass >80
	<b>Impact Resistance</b>	ECCA T5	Pass 2.5 joules direct and reverse
	<b>Flexibility</b>	ISO1519 (Conical Mandrel)	Pass 5mm

<b>Chemical Tests:</b>	<b>Acetic Acid Salt Spray</b>	ISO9227	Pass at 1000 hours - <16mm <sup>2</sup> corrosion/10cm
	<b>Cyclic Humidity</b>	DIN 50017	Pass at 1000 hours - Creep <1mm from scribe. No blistering
	<b>Sulphur Dioxide</b>	ISO3231 (Kesternich)	Pass 30 cycles - no blistering, creep <1mm from scribe
	<b>Permeability</b>	Pressure Cooker Qualicoat B1(o)	Pass - no defects after 1 hour
	<b>Chemical Resistance</b>		Generally good resistance to acids, alkalis and oils at normal temperatures

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<b>Weathering Tests:</b>	<b>Exterior Durability</b>	ISO2810 12 months Florida 5°S	Excellent performance. Gloss retention >50% Colour Change < Qualicoat/GSB limits
	<b>Colour Stability at elevated temperatures</b>		Excellent

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**Pretreatment:** For maximum protection it is essential to pretreat architectural components prior to the application of **Interpon D25**. Aluminium components should receive a full multi-stage chromate conversion coating or suitable chrome-free pretreatment to clean and condition the substrate. Detailed advice should be sought from the pretreatment supplier.

Galvanised steel also requires multi-stage pretreatment using either zinc phosphate or chromate conversion. Degassing of galvanised steel prior to powder application is considered mandatory - follow the procedural advice of the pretreatment supplier.

**Interpon D25** products may also be used on mild steel fabrications for non-architectural applications, nevertheless zinc phosphate pretreatment is regarded as essential.

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**Application:** **Interpon D25** can be applied by manual or automatic tribostatic and corona spray equipment. Unused powder can be reclaimed using suitable equipment and recycled through the coating system.

**Interpon D25 FX** metallic effects can be applied by manual or automatic corona spray equipment. However different electrostatic gun types may exert different charging characteristics and hence affect appearance. 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 'sparkle' when compared to original virgin material.

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**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 "Code of Safe Practices" issued by the British Coatings Federation, copies of which are available on request.

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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.