

Product Data Sheet

AkzoNobel Powder Coatings

Interpon W2000

Topcoat Texture Indoor

Product Description

Interpon W2000 is a range of textured ultra low bake powder coatings especially designed for heat sensitive substrates such as medium-density fibreboard (MDF) or other composite materials for interior applications.

Interpon W2000 provides high surface hardness, good scratch resistance and excellent chemical resistance.

Powder Properties

Chemical type	Epoxy-Polyester
Gloss (60°)	5-55 units (depending on formulation)
Appearance	Texture
Recommended Film Thickness (µm)	80 - 100 µm (on suitable type of MDF)
Density (g/cm³)	1,2 - 1,6 g/cm ³ depending on color (see CoA for product specific)
Application	Electrostatic
Storage	Under dry, cool (≤ 23°C) conditions (open boxes must be resealed)
Shelf Life	3 months from production date
IR Curing Schedule (surface temperature)	130°C * 7 minutes; 140°C * 4 minutes; 150°C * 2.5 minutes

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	18 mm MDF
Film Thickness	80 - 100 microns
IR Curing Schedule (surface temperature)	140°C * 4 minutes

Physical performance characteristics

Adhesion (2mm crosshatch)	ISO 2409	≤ Gt1
Pencil Hardness	ASTM D3363	≥ H
Cold Liquid Resistance	DIN 68861, pt1	1C
Abrasion Resistance	DIN 68861, pt2	2C
Scratch Resistance	DIN 68861, pt4	4D
Resistance to Dry Heat	DIN 68861, pt7	100°C / 7C
Resistance to Wet Heat	DIN 68861, pt8	70°C / 8B

Pre-treatment

A range of options exist depending on the substrate characteristics, customer requirements and fit for purpose performance. Generally will carry out specific tests and make recommendation taking into account a broad range of tests including material composition, surface resistance, density and moisture content to achieve optimum results.

Application

Interpon W2000 powders can be applied by manual or automatic electrostatic spray. For solid shades, unused powder can be reclaimed. Mixing ratio of virgin/reclaim powder coatings should be agreed during the trials setup and consultation with AkzoNobel technical service. Please consult AkzoNobel for further details as to the correct mixing ratio for virgin/reclaim powder.

Recommended film thickness

80-100 µm. A good protection is linked with the recommended film thickness.

All powders can show small color differences from batch to batch, this is normal and unavoidable. While AkzoNobel take every precaution to minimize visible differences, this cannot be guaranteed. Applicators and fabricators are advised to use a single batch for parts that will be assembled together. Differences are more likely with special effect powders. Bonded products have better application properties than blended products (more stable) but attention should still be paid to line settings to avoid "marble effect" and changes in aspect after recycling. A constant ratio between virgin and recycled powders should be fixed by the coater to achieve a consistent effect. For more details it is suggested to read the "*Metallic Application Guideline*".

Different substrates, use of primer, and big changes in film thickness may give a different aspect. Products with different codes should not be mixed even if same color and gloss.

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 customers.

Disclaimer

IMPORTANT NOTE: The information in this data sheet is not intended to be exhaustive and is based on the present state of our knowledge and on current laws: any person using the product for any purpose other than that specifically recommended in the technical data 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. It is always the responsibility of the user to take all necessary steps to fulfil the demands set out in the local rules and legislation. Always read the Material Data Sheet and the Technical Data Sheet for this product if available. All advice we give or any statement made about the product by us (whether in this data sheet or otherwise) is correct to the best of our knowledge but we have no control over the quality or the condition of the substrate or the many factors affecting the use and application of the product.

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