

Product Datasheet



BU Powder Coatings

AkzoNobel
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Interpon Woodcote T

Product Description

Interpon Woodcote T is a series of epoxy/polyester hybrid powder coatings, which have been designed for use as finish coat for engineered wood products, specifically MDF. The product provides an alternative to the organic coatings, paper foils and vinyl laminates currently used for MDF. A decorative finish can be produced, with excellent stain resistance to general household materials.

Interpon Woodcote T powders are available in a range of colours and special finishes or can be matched to the user's requirements.

Powder Properties

Chemical type	Epoxy/Polyester
Particle size	Suitable for electrostatic spray
Specific gravity	1.2-1.7 g/cm ³ depending on colour
Storage	Dry cool conditions below 25°C
Shelf life	3 months
Sales Code	F-series
Stoving schedule (Air temperature)	10 – 15 minutes at 140°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.

Substrate	18mm Medium Density Fibreboard
Pre-conditioning	3 mins at 120°C (convection)
Film Thickness	75 µm
Stoving	10 minutes at 140°C (air temperature)

Mechanical Tests

Adhesion	BS EN ISO2409 (2mm Crosshatch)	Gt 0
Hardness	BS EN ISO1518 (2000grams)	Pass - no penetration to the substrate
Impact	BS3900-E3	2.5mm

Chemical and Durability Test

Solvent Resistance	MEK double rubs	20 slight softening
Stain Resistance	24 hours	generally excellent resistance to coffee, tea blackcurrant juice, olive oil, ketchup and mustard
Exterior Durability	Not recommended for exterior use	
Colour Stability at elevated temperatures	Good – satisfactory up To 125°C	

Interpon
powder coatings
EVERY COLOR IS GREEN

Interpon Woodcote T

Pretreatment	<p>The MDF is not subjected to any chemical pretreatments. The use of heat prior to application provides an even earthing of the substrate for deposition of the powder. Infra Red and convection heat can be used. The MDF board is typically heated for 3–6 minutes depending on the thickness of the MDF. The edge of the board may display cracking if it is overheated or contains to high a level of moisture so the temperature or duration should be decreased until it does not occur. The surface temperature of the board should be in the range of 60-75°C if the board is overheated it will have poor application properties, typically low film build or no edge coverage.</p> <p>MDF machining MDF surfaces to be coated must be clean and free from dust. The edges of the board are typically routed to produce rounded edges and the surface of the board is sanded to give a smooth finish. The application of powder onto right angles is not recommended, as they tend to “dry out” in the conditioning stage and result in poor application performance.</p>
Application	<p>Interpon Woodcote T 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.</p>
Additional Information	<p>There are many suppliers and types of MDF grades available and it is therefore advisable for the end user to determine which will produce the optimum results on the equipment available to them. As a guide the grades most suitable have a minimum density of 750Kg/m³ and moisture content of 8-10%.</p> <p>For further details on powder properties and film performance of Interpon Woodcote T please contact AkzoNobel.</p>
Safety Precautions	<p>Please consult the Material Safety Datasheet (MSDS)</p>

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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 fulfill 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. Therefore, unless we specifically agree in writing otherwise, we do not accept any liability whatsoever for the performance of the product or for any loss or damage arising out of the use of the product. All products supplied and technical advice given are subject to our standard terms and conditions of sale. You should request a copy of this document and review it carefully. The information contained in this data sheet is subject to modification from time to time in the light of experience and our policy of continuous development. It is the user's responsibility to verify that this data sheet is current prior to using the product.

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