

Product Datasheet



AkzoNobel
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BU Powder Coatings Interpon UV 340W

Product Description

Interpon UV 340W is a range of ultra violet curing powder coatings, specifically designed for use as finish coat for heat sensitive substrates such as MDF.

Interpon UV 340W products are not suitable for external applications.

Interpon UV 340W powders are available on order in a range of colours and special finished and can be matched to user's requirements.

Powder Properties

Chemical type	Unsaturated Polyester
Gloss/Finishes	Can be adjusted between 2 and 30%, fine texture
Sales Code	9-series
Particle Size	Suitable for electrostatic spray
Specific gravity	1.2-1.7 g/cm ³ depending on colour
Storage	Dry cool conditions below 18°C <i>(open boxes must be resealed)</i>
Shelf life	6 months
Stoving schedule	The powder is first melted under IR and/or convection until the desired flow is achieved. The melted powder is then passed under UV lamps for a few seconds for curing. Typical lamps are Mercury (H) for clear and both Mercury and Gallium doped (V) for pigmented systems

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	19mm MDF
Surface temperature for application	50-70°C
Film Thickness	70 - 90 microns
Curing conditions	Melting : 2 minutes at 120°C UV Curing : recommended dose >2500 mJ/cm ²

Mechanical Tests

Adhesion	NF EN ISO 2409 (2mm Crosshatch)	Class 0 - 1
Impact	NF D60-050 F15	>50 cm
Scratch Resistance	NF EN 438-2	>1 N
Taber Abrasion	NF EN 438-2	>300 revolutions

Chemical and Durability Tests

Solvent Resistance	Acetone double rubs	20 no softening
Stain Resistance	NF EN 12720	Generally good resistance to coffee, tea, red wine, cola, tomato sauce
Light Resistance	NF D60-050 F4	5
Exterior Durability		Not recommended for exterior use

Pretreatment	The MDF board has to be carefully sanded prior to application. It must be clean and free from dust. The use of heat prior to application provides an even earthing of the substrate for deposition of the powder. Infra red or convection pre-heat can be used. Time and temperature will depend of the thickness of the board. The temperature of the board should be between 50 and 70°C in the spraying booth. Each type of MDF can have a different behavior for powder spraying. It is advisable to do a prototype before production
Application	Interpon UV 340W powders can be applied by manual or automatic electrostatic spray equipment. Tribo formulations can be made on request. Unused powder can be reclaimed using suitable equipment and recycled through the coating system. For special effect powders, please refer to the specific product datasheet
Safety Precautions	Please consult the Material Safety Datasheet (MSDS)

FOR PROFESSIONAL USE ONLY

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 advices 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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