

ULTRA LOW BAKE ULB Series - Powder Coating

Product Description:

National Paints ULB Series is an Ultra Low Bake Powder Coating system. It is available in a variety of colors as per RAL card, custom-made shades in smooth, fine texture finishes are also available.

National Paints ULB Series has been designed for use as a powder coating finish on MDF. The product provides an alternative to the liquid coatings, paper foils and vinyl laminates currently used for MDF. It is extremely durable and is available in a wide range of colors and textures. It is reclaimable, safe and environmentally friendly. NP ULB Series can also be used on other heat-sensitive substrates using a traditional thermal curing method.

Application Areas:

National Paints ULB Series is suited where the curing temperature requirement is very low, primary areas for use as powder coating finish on MDF substrate.

Powder Application:

National Paints ULB Series can be applied by corona Electrostatic Powder Spray – 40 to 100 KV. Over-spray powder can be reclaimed using suitable equipment and recycled through the coating systems.

Key Features:

- Available in a full range of colors, any special color can be matched as per the customer's requirement.
- Available in different finishes, fine and heavy texture patterns, sandy and hammer tone finishes.
- Environmentally friendly coatings compared with conventional liquid paints & varnishes.

- One coat application process similar to conventional powder application systems.
- Excellent application properties, charging, transfer efficiency, and edge coverage.
- Less sanding required for MDF products compared with normal paints & varnishes.
- Significant energy, time and space savings.
- Low temperature cure permits a wide range of wood substrates to be powder coated

Powder Properties:

Chemical type	:	Epoxy/Polyester
Particle size	:	Suitable for electrostatic spray
Specific gravity	:	1.2-1.7 g/cm ³ , depending on color
Storage	:	Dry cool conditions below 30°C
Shelf life	:	6 months

Substrate:

Substrate	:	18mm Medium Density Fiber board
Density	:	>750gm/cm ³
Moisture	:	8-10%
Pre-heating	:	2 – 3 minutes at 130°C
Curing schedule	:	25 – 30 minutes at 130°C
Film Thickness	:	60-80µm
Preparation	:	Main Side requires very less surface preparation, edges should be sanded or treated to minimize the out gassing and pin holing.



Storage Conditions: Store powder in a dry cool condition. Do not exceed 33°C. Keep powder in packed condition if not in use to avoid contamination and moisture. Do not mix with any other powder.

Shelf Life : The powder has shelf life of one year from the date of manufacture.

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The information in this Data Sheet is the outcome of NP research work and experience. The information contained herein is believed to be accurate but cannot be taken as a formal warranty.

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