



UV- Cured Powder Coating Polyester 2 Coat for MDF

An innovative coating solution, UVMAX[®] 2 Coat powder coating for MDF is an excellent finish for applications in the kitchen & bath, furniture, and architectural markets.

The UVMAX[®] 2 coat powder coating process is an alternative to traditional paint or laminate and offers a significant time advantage, as parts can be finished in as little as 20 minutes with no drying or wait time.

Powder can be formulated in a wide range of colors matching any RAL, Pantone, or supplied color standard.

Other benefits include:

- * No VOCs or HAPs
- * Instantaneous cure
- * Highly durable chemically resistant finish
- * Wide range of applications
- * Large pallet of colors, glosses, and textures

Contact us to learn more!



Keyland Polymer Ltd.

Manufacturer of UV-Curable Powder Coatings

A 5 piece raised panel MDF powder coated door



UV- Cured Powder Coating Polyester 2 Coat for MDF

Technical Properties

PRODUCT OVERVIEW

UVMax® UV-cured powder coating from Keyland Polymer is durable and functional for a variety of products and applications.

UVMax® Polyester 2 Coat for MDF is an excellent coating for applications in the kitchen & bath, furniture, and architectural markets.

Keyland can develop a wide range of powders to match to any RAL, Pantone, or supplied color standard.

PRODUCT BENEFITS

- Zero VOCs
- Instant cure
- Highly durable and chemically resistant
- Wide range of applications
- Large pallet of colors, glosses, and textures

Property	Test Method	Result
60° Gloss	ASTM D 523	10 - 30
Film Build	ASTM D 4138, Method A Destructive, Tooke Gauge	3 - 5 mils
Adhesion	ASTM D 3359, Method A (X-scribe)	4A Minimum
Pencil Hardness	ASTM D 3363	H Minimum
Impact	NEMA LD 3-2005, Test Method 3.8	50" minimum, no cracking
Abrasion Resistance	ASTM D 4060, CS-17 wheel, 500 g, 500 cycles	30 - 35 mg material loss
Boiling Water Resistance	NEMA LD 3-2005, Test Method 3.5	No blistering
Stain Resistance and Cleanability Testing		
10% citric acid	NEMA LD 3-2005, 3.4	No Effect
Vegetable Oil	NEMA LD 3-2005, 3.4	No Effect
Coffee	NEMA LD 3-2005, 3.4	No Effect
Tea	NEMA LD 3-2005, 3.4	No Effect
Milk	NEMA LD 3-2005, 3.4	No Effect
Catsup	NEMA LD 3-2005, 3.4	Very Slight Effect
Mustard	NEMA LD 3-2005, 3.4	No Effect
10% Providone iodine	NEMA LD 3-2005, 3.4	No Effect
Ammonia	NEMA LD 3-2005, 3.4	No Effect
Crayon	NEMA LD 3-2005, 3.4	Very Slight Effect
Ethanol/water	NEMA LD 3-2005, 3.4	No Effect
Lipstick	NEMA LD 3-2005, 3.4	No Effect
#2 Pencil	NEMA LD 3-2005, 3.4	Slight Effect
Shoe Polish	NEMA LD 3-2005, 3.4	Slight Effect

Application Data

Parameters	Recommendations
Application	Application parameters for 2 coat finishing can vary. Please contact Keyland Polymer for further information.
Melt	Melt times and temperatures for 2 coat finishing can vary. Please contact Keyland Polymer for further information.
UV Cure	It is recommended that opaque powder coatings be cured using gallium-doped lamps with a UVV dosage of 2000 – 4000 mJ/cm ² and UVV intensity of 1000 – 2000 mW/cm ² .
Storage and Shelf Life	Dry and cool conditions below 18°C for 6 months are recommended for storage stability. Contact Keyland Polymer to confirm the appropriate storage conditions for your product.

Disclaimer: The recommendations and suggestions herein are made without guarantee or representation of results. Actual product performance will depend on the conditions in which the product is used. We recommend adequate testing in your laboratory or plant to determine if this product meets all of your finish requirements.

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4621 Hinckley Industrial Parkway Suite 8 Cleveland, OH 44109 USA
P: 216-741-7915 info@keylandpolymer.com www.keylandpolymer.com