ISOLANTE I

POLYURETHANE BARRIER COAT SEALER

DESCRIPTION

ISOLANTE I is a two-component polyurethane barrier coat sealer. This premium product offers exceptional adhesion and can be used on difficult and oily substrates as a barrier coat. It was developed to penetrate wood pores and seal them to permit the sealer or primer to better fill up wood grain.This barrier coat sealer formula is specifically designed for interior wood surfaces that are rich in natural wood oils or otherwise marginally contaminated.

Formaldehyde free

PRODUCT DATA

Color	Clear	**VOC less exempts**	758.10 g/L	5.53 lb/gal0
Solids % by Vol	12% ± 2%	**VOC actual**	763.10 g/L	6.37 lb/gal
Solids %by Wt	15% ± 2%	**Photochemical reactive**	No	
Density	0.92	**Flash Point (PM/CC)**	N/A	
Viscosity 23°C/73°F #4 Ford	10	**Shelf life**	6 months (at 15-25°C/59-77°F)	
Gloss(On Black glass @60°)	Flat	**Theo-coverage @1 mil dry**	195-200 Sq.Ft/gal	5-6 m^2/L

PREPARATION/APPLICATION

Working Temp >18°C/65°F surface, coating and air

Catalyzation 100 % by volume using C 10 Catalyst- 1 parts ISOLANTE I to 1 part C 10 catalyst

Pot life 4 hours (23°C/74°F)

Reducer If needed, reduce 10-15% by volume with DEDE LBM THINNER (fast), DEDE L THINNER (medium).

Film thickness Min 4 mil wet –Max 5 mil wet

Application

- Apply 1 coat of catalyzed ISOLANTE I at 4.0 - 5.0 mils wet. Allow to dry for sanding.
- Sand with 320-grit paper and remove all sanding dust.
- Seal/Prime-Apply a recommended sealer/primer Allow to dry and sand with 320-grit paper. Topcoat within 8 hours of sanding.
- Topcoat with recommended LORCHEM Topcoat.
- Do not exceed 7.0 mils DFT for the total system.

Surface Preparation Wood surface must be clean, dry, free of grease and oil and finish sanded with 180 grit sandpaper to ensure optimum adhesion and coating performance properties. Moisture content of the wood should be between 6%-8%.

Use Directions For interior use only. Catalyze, adjust viscosity and stir thoroughly before application to avoid variations application. Dry time can be directly impacted by many factors, including film thickness. Users are urged to test the system under shop conditions.

App equip. Conventional & HVLP Siphon Feed, Pressure Pot Systems and Airless/Air Assist Equipment.

Tinting Can be tinted up to 10% maximum with universal colorants 844.

Cleanup Clean tools/equipment immediately after use with T750 LORCHEM cleaner gun or a quality lacquer thinner or acetone. Always follow manufacturer's safety recommendations when using any solvent.

Standards This product meets KCMA and CKCA test requirements when used under recommended LORCHEM Topcoat .

DRYING TIMES

Method	Drying temperature.	Drying Time (@ 50%RH and thickness @ 4 mil WET)			
Air Drying	23°C/74°F	**Dust free time**	10-12 minutes	**Dry to sand**	12 hours
		Dry to touch	3 hours	**Dry to recoat**	12 hours
		Dry to Handle	12 hours	**Dry to stack**	24 hours
Force dry	45to 60°C/110-140°F	Minutes			

Note: Dry times are greatly affected by film build, porosity of substrate, air movement as well as heat and humidity. Minimum curing temperatures of 23°C/74°F must be maintained throughout curing cycle to achieve the film integrity as stated in product features.

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APPLICATION RECOMMENDATIONS

APPLICATION EQUIPMENT SETTINGS

Method of Application	Air Pressure (PSI)	Fluid Pressure (PSI)	TIP size (mm / inch)	Application Viscosity (#FORD 4)	Thickness Film (Mils)
Conventional spray	40-50	08-12	1.8-2/0,070-0,078	-	3-5
Airless Spray	10-18	300-600	0,28-0,33/0,011-0,012	-	3-5
HVPL	35-45	8-12	1.19-1,39/0,047-0,055	-	3-5

Note: All measurements and application equipment settings are based on application at a temperature of 23°C/74°F. Viscosity will vary depending on the temperature of the liquid. The above-mentioned application equipment recommendations are guidelines only. The noted settings are starting point recommendations and that adjustment to the settings and equipment may be needed to obtain the desired results. Please refer to your specific equipment manufacturer's recommendations for equipment set-up.

SPECIFICATIONS

- For interior use only.
- Must be stirred before and during using.
- Must be catalyzed with C 10 catalyst at a level of 100% by volume. Over catalyzing or using incorrect catalyst may result in blooming, cracking and poor adhesion.
- Reduction is not required but may improve application depending on equipment used and application conditions.
- This product should be thoroughly sanded within 4 hours of being applied. If the sealer is not topcoated the same day, it should be resanded immediately before topcoating to insure optimum intercoat adhesion.
- Store at room temperature (under 25°C/ 80° F) after catalyzation. Higher temperatures will reduce the pot life.
- Can be used under recommended LORCHEM Topcoat. Please contact your LORCHEM representative for system recommendations.
- Total film thickness of systems must not exceed 7.0 mils dry film because heavier films may show cracking tendency.

CAUTIONS

TESTING

Due to the wide variety of substrates, surface preparation methods, application methods, and environments, the customer should test the complete system for adhesion, compatibility and performance prior to full scale application.

THESE PRODUCT ARE DESIGNED FOR INDUSTRIAL SHOP APPLICATION AND PROFESSIONAL USE ONLY

Thoroughly review Safety Data Sheet (SDS) for safety information and cautions prior to using this product. Please direct any questions or comments to your local representative.

PDS

Product Data Sheets are periodically updated to reflect new information relating to the product. It is important that the customer obtain the most recent Product Data Sheet for the product being used. The information, rating, and opinions stated here pertain to the material currently offered and represent the results of tests believed to be reliable. However, due to variations in customer handling ,preparation and application which are not known or under our control, LORCHEM cannot make any warranties related to the product or the performance of the product. Moreover, we underline the fact that in industrial applications, a tolerance of 5% in the overall results is considered normal and is not caused by the quality of the product.

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