

AQUANATURE

WATERBASE TOPCOAT



DESCRIPTION

AQUANATURE is a high-quality mat topcoat designed for use on interior wood products. It ensures high chemical and scratch resistance along with smoothness to the touch. Typical use applications include finishing furniture, stairs, doors and a wide variety of wood and novelty items.



PRODUCT DATA

Color	Clear	VOC less exempts	50 g/L	0.45 lb/gal0
Solids % by Vol	N/A	VOC actual	50 g/L	0.45 lb/gal
Solids %by Wt	32% ± 2%	Photochemical reactive	No	
Density	1.04 ± 0.02	Flash Point (PM/CC)	N/A	
Viscosity 23°C/73°F #4 Ford	N/A	Shelf life	12 months (at 15-25°C/59-77°F)	
Gloss(On Black glass @60°)	0-5	Theo-coverage @1 mil dry	100-200 Sq.Ft/gal	4-6 m ² /L

PREPARATION/APPLICATION

Working Temp	>18°C/65°F surface, coating and air
Catalyzation	N/A
Reducer	Reduce 5% by volume with warm water if needed.
Suggested Sealer	AQUAFOND 424
Application	<ul style="list-style-type: none"> ◆ Color Wood-Stain or tone as desired and dry thoroughly ◆ Seal- Apply a full coat of a recommended sealer at 3.0 – 5.0 wet mils. ◆ Allow to dry, sand with 240, 320 paper, or sponges as required. Topcoat within 8 hours of sanding ◆ Topcoat – apply AQUANATUR 0 at 3.0 - 5.0 mils wet ◆ For more depth or build, sand and apply an additional coat. ◆ Do not exceed 7.0 mils DFT for the total system.
Surface Preparation	Wood surface must be clean, dry, and finish sanded with 180 grit sandpaper. Substrate should be clean and free of grease and oil 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 water.
Standards	This product meets KCMA standards when used over recommended LORCHEM sealers.

DRYING TIMES

Method	Drying temperature.	Drying Time (@ 50%RH and thickness @ 4 mil WET)			
		Air Drying	23°C/74°F	Dust free time	30 minutes
Dry to touch	-			Dry to recoat	2-4 hour
Dry to Handle	60 minutes			Dry to stack	8-12 hours
Force dry	45 °C/110°F	30 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)	Dilution %	Thickness Film (Mils)
Conventional spray	40-60	-	2-2.5/0,078-0.098	10-20	3-5
Airless Spray	-	120-150	9/0,35	-	3-5

The use of pre-atomizers and pre-heaters, to bring the temperature to 30 – 40 °C, ensures a correct application regardless the room temperature. The drying process should be carried out in environments with adequate air ventilation (the recycle of air in the drying room should be carried out every 15-20 minutes).

Note: All measurements and application equipment settings are based on application at a temperature of 77°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 agitated before and during using.
- Use stainless steel spray equipment. Tank, piping, and containers should be lined steel or plastic.
- Do not expose to freezing temperatures. The liquid coating will not handle any freeze/thaw cycles.
- Apply over recommended LORCHEM sealer. Please contact your LORCHEM representative for system recommendations.
- The application on Nitrocellulose basecoat is not recommended.
- Total film thickness of systems must not exceed 7.0 mils dry film because heavier films may show cracking tendencies.
- Very low temperature application (less than 12°C) may cause poor mechanical and chemical film properties.
- When finishing Redwood, Red or White Oak, Pine and Cedar wood with water-based finishes, tannins may be extracted from the wood by the water and cause staining and/or discoloration of the stain, sealer, and/or topcoat. This tannin bleed is most evident with white or pickled stains and clear topcoats. Users are urged to thoroughly test the system under shop conditions.
- Natural Finished Woods (unstained) will change color on aging and exposure to light. This is a natural phenomenon. Clear finishes will not prevent the wood from changing color.

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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