TECHNICAL DATA SHEET AQUAFLAMA 430 WATERBASE FIRE-RETARDANT COATING



LOW

VO

HAP

free

DESCRIPTION

AQUAFLAMA 430 is a waterbase fire rated coating for use on interior wood products. This product is formulated for use as a Class A fire retardant treatment for interior wood products. Aquaflama 430 is low VOC and non-toxic.

APPROVAL	•								
Coati	ng systems De		ASTM E-84, NFPA 255, UL Classification		Flame spread Index		Smoked Developed		
AQUAFLAMA 430 applied in three coats at 5 wet mils per coat.			Class1/Class A		(FSI) 5		Index (SDI) 15		
			СА	N/ULC-S102.	•				
Coating systems Details					Flame Spread Rating (FSR)		Smoke Developed Classification (SDC)		
AQUAFLAMA 430 applied in three coats at 5 w mils per coat.			-		0		10		
PRODUCT I	DATA								
Color Solids % by Vol Solids %by Wt		Clear 26.59 ± 2% 37.99% ± 2%		VOC less exem VOC actual Photochemical	95.63 g/		-		
Density Viscosity 23°C/73°F Gloss(On Black glass @60°)		1.02 ± 0.02 N/A 20, 35,50,90/Available in		Flash Point (PM/CC) Shelf life Theo-coverage @1 mil dry		No Flash 12 months (at 15-25°C/59-77°F) 400-450 Sq.Ft/gal 8-9 m²/L			
 PREPARATION/APPLICATION Working Temp Catalyzation Pot life N/A Reducer Application Color Wood-Stain or tone as desired and dry thoroughly. THREE COATS OF AQUAFLAMA 430 MUST BE APPLIED 1sT coat: Apply AQUAFLAMA 430 at 5.0 wet mils. Air dry 4 hours. Sand: Sand with 320 grit or equivalent. Remove sanding dust. 3rd Coat: Apply AQUAFLAMA 430 at 5.0 wet mils. Air dry 4 hours Sand: Sand with 320 grit or equivalent. Remove sanding dust. 3rd Coat: Apply AQUAFLAMA 430 at 5.0 wet mils. Air dry 4 hours Sand: Sand with 320 grit or equivalent. Remove sanding dust. 3rd Coat: Apply AQUAFLAMA 430 at 5.0 wet mils. Air dry 4 hours Sand: Sand with 320 grit or equivalent. Remove sanding dust. 3rd Coat: Apply AQUAFLAMA 430 at 5.0 wet mils. Air dry 4 hours Sand: Sand with 320 grit or equivalent. Remove sanding dust. 3rd Coat: Apply AQUAFLAMA 430 at 5.0 wet mils. Air dry 4 hours Mote: If one coat is not topcoated the same day, it should be resanded immediately before topcoating to insure optimum intercoat adhesion. 									
Surface Preparation Use Directions App equip Tinting Cleanup	 Wood surface must be 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%. 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. Conventional & HVLP Siphon Feed, Pressure Pot Systems and Airless/Air Assist Equipment. Can be tinted up to 10% maximum with AquaTint colorants 100 Clean tools/equipment immediately after use with water. 								

TECHNICAL DATA SHEET **AQUAFLAMA 430** WATERBASE FIRE-RETARDANT COATING



DRYING	TIMES										
Method Drying temperature.			D	Drying Time (@ 50%RH and thickness @ 4 mil WET)							
		D	ust free time	20 minutes	Dry to sand	4 hours					
Air Drying	23°	C/74°F D	ry to touch	30 minutes	Dry to recoat	4 hours					
			ry to Handle	3 hours	Dry to stack	24 hours					
Force dry	e dry 45 °C/110°F										
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.											
APPLICATION RECOMMENDATIONS											
APPLICATION EQUIPMENT SETTINGS											
Metho Applica		Air Pressure (PSI)	Fluid Pressure (PSI)	TIP size (mm / inch)	Dilution %	Thickness Film (Mils)					
Convention	Conventional spray		-	2-2.5/0,078-0.098	10-20	5					
Airmix S	Airmix Spray 15-		1100-1600	9-11/0,35-0.43	-	5					
Airle	Airless -		1700-2200	9-11/0,35-0.43	-	5					
 SPECIFICATIONS For interior use only. Must be stirred before and during using. Avoid vigorous agitation which may cause foaming. Use stainless steel spray equipment. Tank, piping, and containers should be lined steel or plastic. Very low temperature application (less than 12°C) may cause poor mechanical and chemical film properties. Excessive wet film thicknesses (>4.0 mils wet) may sag. Very low humidity may cause mud cracking and poor 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. Do not expose to freezing temperatures. The liquid coating will not handle any freeze/thaw cycles. 											
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.											
TH	IESE PRO	DUCT ARE DESI		TRIAL SHOP APPLICATIO	ON AND PROFESSIONA	L 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.											
CONTACT											
	PH : +1(450)424-4000 F : +1(450) 424-9134			LORCHEM INTERNATIONAL							
F: +1(450) 424 http://www.lo		com		150,Rue Aimé-Vincent Vaudreuil, Dorion, QC J7V5V5							