TECHNICAL DATA SHEET

FFRL 2010

SOLVENT BASE FIRE-RETARDANT COATING

DESCRIPTION

FFRL 2010 is a solvent-base fire rated coating for use on interior. This product is formulated for use as a Class A fire retardant treatment for interior and exterior wood products.

Formaldehyde free

APPROVAL

FFRL 2010 has been tested to the following standards: **ASTM E-84, NFPA 255, UL 723**.

Coating systems Details	Classification	Flame spread Index (FSI)	Smoked Developed Index (SDI)
Three coats at 5 wet mils per coat.	Class1/Class A	15	50

FFRL 2010 has been tested to the following standards: **CAN/ULC-S102-10**

Coating systems Details	Classification	Flame spread Index (FSI)	Smoked Developed Index (SDI)
Three coats at 5 wet mils per coat.	-	15	50

PRODUCT DATA

Color	Clear	**VOC actual**	625.33 g/L	5.22 lb/gal
Solids % by Vol	20.32 % ± 2%	**VOC less exempts**	608.40 g/L	5.08 lb/gal
Solids %by Wt	27.10 % ± 2%	**Photochemical reactive**	No	
Density	1.01 ± 0.02	**Flash Point (PM/CC)**	N/A	
Viscosity 23°C/73°F (cps)	N/A	**Shelf life**	12 months (at 15-25°C/59-77°F)	
Gloss(On Black glass @60°)	20, 35,50,90/Available in other gloss level	**Theo-coverage @1 mil dry**	380-390 Sq.Ft/gal	9-10 m^2/L

PREPARATION/APPLICATION

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

Catalyzation 20 % by volume using C F2010 catalyst - 10 parts FFRL 2010 to 2 part C F2010 catalyst.

Pot life 3 hours (23°C/74°F)

Reducer Reduce 15-30% by volume with DEDE L THINNER (medium).or DEDE SL THINNER (slow).
To help reduce trapped air, blushing or orange peel, use Retarder LR236 at a maximum of 5%.by volume

Application

- **Color Wood**-Stain or tone as desired and dry thoroughly.

THREE COATS OF FFRL 2010 430 MUST BE APPLIED

- **1ST coat:** Apply FFRL 2010 at 5.0 wet mils. Air dry 4 hours.
- **Sand:** Sand with 320 grit or equivalent. Remove sanding dust.
- **2nd coat:** Apply FFRL 2010at 5.0 wet mils. Air dry 4 hours
- **Sand:** Sand with 320 grit or equivalent. Remove sanding dust.
- **3rd Coat:** Apply FFRL 2010 at 5.0 wet mils. Air dry 4 hours

Note: If one coat is not topcoated the same day, it should be resanded immediately before topcoating to insure optimum intercoat adhesion.

Surface Preparation 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%.

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.

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DRYING TIMES

Method	Drying temperature.	Drying Time (@ 50%RH and thickness @ 4 mil WET)			
Air Drying	23°C/74°F	**Dust free time**	20 minutes	**Dry to sand**	4 hours
		Dry to touch	30 minutes	**Dry to recoat**	4 hours
		Dry to Handle	3 hours	**Dry to stack**	24 hours
Force 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

Method of Application	Air Pressure (PSI)	Fluid Pressure (PSI)	TIP size (mm / inch)	Dilution %	Thickness Film (Mils)
Conventional spray	40-50	08-12	1.8-2/0,070-0,078	18-21	3-5
Airless Spray	10-18	300-600	0,28-0,33/0,011-0,012	18-21	3-5
HVPL	35-45	8-12	1.19-1,39/0,047-0,055	18-21	3-5

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

- Must be agitated before and during using.
- Must be catalyzed with C F2010 catalyst at a level of 20% by volume. Over catalyzing or using incorrect catalyst may result in blooming, cracking and poor adhesion.
- Store at room temperature (under25°C/ 80° F) after catalyzation. Higher temperatures will reduce the pot life.
- Yellowing over white and pastel colors may occur due to the yellowing tendency of the color system (stain, basecoat, etc.), and not to the clear Acrylic topcoat.

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.

CONTACT

PH: +1(450)424-4000
F: +1(450) 424-9134
http://www.lorchemintl.com

LORCHEM INTERNATIONAL
150,Rue Aimé-Vincent Vaudreuil, Dorion,
QC J7V5V5