

TEST REPORT

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EVALUATION CENTER

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PRODUCT EVALUATED: FX LumberGuard
EVALUATION PROPERTY: ASTM D2369

Report of Testing FX LumberGuard for compliance with the applicable requirements of the following criteria: ASTM D2369 Standard Test Method for Volatile Content of Coatings

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2 INTRODUCTION

Intertek has conducted testing for Fire Retardant Coatings of Texas, on FX LumberGuard, to evaluate volatile content. Testing was conducted in accordance with EPA Method 24, following the standard methods of ASTM D2369 Standard Test Method for Volatile Content of Coatings. This evaluation began August 4, 2015 and was completed August 6, 2015.

3 TEST SAMPLES

3.1. SAMPLE SELECTION

Samples were submitted to Intertek directly from the client. Samples were not independently selected for testing. Samples were received at the Evaluation Center on July 29, 2015 in good condition.

3.2. SAMPLE AND ASSEMBLY DESCRIPTION

Sample Name: FX LumberGuard

Sample Description: A 32 FL OZ sample was provided by the client. Density – 1120 g/L

4 TESTING AND EVALUATION METHODS

4.1. ASTM D2369

The samples are weighed and placed into aluminum foil dishes. The samples are heated in aluminum foil dishes containing the dispersed specimens in the forced draft oven for 60 min at 110 +/- 5°C. The samples are placed in a desiccator and allowed to cool. The samples are then weighed.

Calculate the percent volatile matter, V , in the sample as follows:

$$V_A = 100 - [((W_2 - W_1)/S_A) \times 100]$$

where:

V_A = % volatiles (first determination),

W_1 = weight of dish,

W_2 = weight of dish plus specimen after heating,

S_A = specimen weight, and

The percent of nonvolatile matter, N , in the sample is calculated by difference as follows:

$$N = (N_A + N_B)/2$$

where:

$N_A = 100 - V_A$, and

$N_B = 100 - V_B$.

N_A represents first determination and N_B represents duplicate determination.

Equipment: Oven #1200
Thermometer #701
Balance #1045

4.2. Deviation From Standard Method

There were no deviations from the standard.

5 TESTING AND EVALUATION RESULTS

5.1. RESULTS AND OBSERVATIONS

Sample Name	Trial	Weight of Boat	3+/- 1 ml Solvent used	Weight of Syringe Full	Wight of Syringe Empty	Sample Weight	Weight of the Dried Boat
	A/B	W1	Water	S1	S2	Sa	W2
FX LumberGuard	A	2.6795	3	2.9556	2.5126	0.443	2.7951
FX LumberGuard	B	2.7004	3	2.9825	2.5358	0.4467	2.8176

Sample Name	Percent Volatile Matter	Percent Volatile Matter (Average)	Relative Percent Difference	Percent Nonvolatile Matter	Percent Nonvolatile Matter (Average)
	Va/Vb	V	< 1.5%	Na/Nb	N
FX LumberGuard	73.90	73.83	0.19	26.09	26.17
FX LumberGuard	73.76	73.83	0.19	26.24	26.17

5.2. EXAMINATION OF RESULTS

Sample Name	Percent Volatile Matter (ASTM D2369)	Percent Water (ASTM D4017*)	VOC Content (Volatile Matter Less Water)	Density	VOC content
	V	%	%	g/L	g/L
FX LumberGuard	73.83	73.78	0.06	1120	0.65

*See report 102230247MID-002

The VOC Content of FX LumberGuard is 0.65 g/L (0.06%).

6 CONCLUSION

Intertek has conducted testing for Fire Retardant Coatings of Texas, on FX LumberGuard, to evaluate volatile content. Testing was conducted in accordance with EPA Method 24, following the standard methods of ASTM D2369 Standard Test Method for Volatile Content of Coatings.

The conclusions of this test report may not be used as part of the requirements for Intertek product certification. Authority to Mark must be issued for a product to become certified.

INTERTEK

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Fire Retardant Coatings of Texas, LLC
Project No. 102230247MID-002

August 6, 2015
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REVISION SUMMARY

DATE	SUMMARY
August 6, 2015	Date of original report
