

Self-Declared Certificate of Product Conformity VOC Emissions



Company Information

Company Name:	FIREFREE Coatings, Inc
Contact Information:	Elisa Vivas
Website:	www.firefree.com

Product Information

Product Name:	Firefree Class A
Product Number:	FFA
Product Line:	Intumescent Flame Retardant Paint
Product Category:	Paints

Exclusions

Exclusions:	None
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VOC Content

Regulatory VOC Content g/L:	36 g/l
Regulation:	SCAQMD Rule 1113
Category:	Flat coatings
VOC Content test or determination method:	ASTM Methods D6886 & D2369
Exempt compounds >1% weight by mass of product:	None
Does product contain methylene chloride or perchloroethylene?:	No

VOC Emissions

Test Standard:	CDPH Standard Method V1.2
Acceptance Criteria:	CDPH Standard Method V1.2
Use scenario(s) Product type:	Wall Paint & Wall Coverings
Building Type:	Classroom+Office
Product coverage g/m ² :	461
TVOC concentration at 14-days:	between 0.5 mg/m³ and 5 mg/m³
Direct or extended claim:	Extended

Compliance Testing

ISO/IEC 17025 accredited third-party laboratory:	Berkeley Analytical, IAS TL-383
Test start date:	04/20/2018
Laboratory certificate number:	180115-01

Extended Claim for Co-product

Name of compliance tested product:	Firefree 88
Number:	FF88
Was listed product screening-level tested for VOC emissions?:	Yes
Basis for extension of claim from compliant product to co-product:	Same VOC emissions as the co-product Firefree 88, meets all the CDPH Method v1.2 guidelines.
Brief description of procedures used to ensure product is represented by compliance test results:	The product formulation tested previously meets all the QC and screen levels of performance.

Quality Control

Company maintains internal quality control program to ensure manufactured units are produced consistently and meet the requirements and acceptance criteria of listed standard(s):	Yes
Tested product sample was selected from typical production and is representative of commercial product. Where there are expected variations, sample was selected from production lot or group expected to give worst-case results:	Yes
If claim is for product other than product that was sampled and compliance tested, company maintains record of procedures used for extending claim in form of test results, calculations, formulations, or other information:	Yes

Self-Declaration Signature

I affirm that I am authorized to make claims established in this declaration:	Yes
I certify that the information in this declaration is true and correct:	Yes
Date:	05/18/2018
Name of company representative:	Elisa Vivas
Title:	Technical Specialist
Signature:	Elisa Vivas

This ClearChem template is a standardized reporting form used by companies to make self-declared claims about the environmental performance of their products. Only companies that have entered into a binding Implementation Agreement with Berkeley Analytical may use this form.

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COMPLIANCE TESTED by berkeley analytical

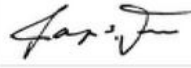
VOC Emission Test Certificate

Product Name: Firefree 88 - FF88

Product Sample Information

Company: Firefree Coatings, Inc.
Company Website: www.firefree.com
Product Type: Paints & Coatings
Date Produced: 11/7/2017

Certificate Information

Certificate No: 180115-01
Certified By: 
Raja S. Tannous, Laboratory Director
Date: January 15, 2018

Reference Standard: California Department of Public Health CDPH/EHLB/Standard Method Version 1.2, 2017 (Emission testing method for CA Specification 01350)

Acceptance Criteria and Results Demonstrating Compliance of Product Sample to Referenced Standard:

Exposure Scenario ¹	Individual VOCs of Concern ²		Formaldehyde ³		TVOC ⁴
	Criterion	Compliant?	Criterion	Compliant?	Range
School Classroom	≤½ Chronic REL	YES	≤9.0 µg/m ³	YES	> 0.5 - 4.9 mg/m ³
Private Office	≤½ Chronic REL	YES	≤9.0 µg/m ³	YES	> 0.5 - 4.9 mg/m ³

Product Coverage⁵: 588 g/m²

1. Exposure scenarios & product quantities for classroom & office are defined in Tables 4-2 – 4-5 (CDPH Std. Mtd. V1.2-2017)
2. Maximum allowable concentrations of individual target VOCs are specified in Table 4-1 (*ibid.*)
3. Maximum allowable formaldehyde concentration is ≤9 µg/m³, effective Jan 1, 2012; previous limit was ≤16.5 µg/m³ (*ibid.*)
4. Informative only; predicted TVOC Range in three categories, i.e., ≤0.5 mg/m³, >0.5 – 4.9 mg/m³, and ≥5.0 mg/m³
5. Informative and applicable only to tests of wet-applied products; grams of sample applied per square meter of substrate

Standards & Codes Recognizing CDPH Standard Method V1.2 (partial list)

- USGBC LEED Version 4, BD&C, ID&C
- The WELL Building Standard
- ANSI/GBI 01, Green Building Assessment Protocol
- ANSI/ASHRAE/USGBC/IES Standard 189.1

Narrative: Firefree Coatings, Inc. selected a sample representative of its Firefree 88 - FF88 product and submitted it on 11/22/2017 for testing. Berkeley Analytical measured and evaluated the emissions of VOCs from this sample following CDPH/EHLB/Standard Method V1.2-2017. The results of the test are presented in Berkeley Analytical report, 1011-001-01A-Jan1018.

Berkeley Analytical is an independent, third-party laboratory specializing in the analysis of organic chemicals emitted by and contained in building products, finishes, furniture, and consumer products. We are an ISO/IEC 17025 accredited laboratory (IAS, [TL-383](#)); all standards used in performing this test are in Berkeley Analytical's scope of accreditation.

DISCLAIMER: THIS CERTIFICATE OF COMPLIANCE AFFIRMS THAT: 1) A SAMPLE OF THE LISTED PRODUCT WAS TESTED ACCORDING TO THE REFERENCED STANDARD; 2) THE MEASURED VOC EMISSIONS FROM THE SAMPLE WERE EVALUATED FOR THE DEFINED EXPOSURE SCENARIO(S); AND 3) THE RESULTS MEET THE ACCEPTANCE CRITERIA OF THE REFERENCED STANDARD(S). BERKELEY ANALYTICAL IS NOT RESPONSIBLE FOR ANY CLAIMS REGARDING A PRODUCT OR PRODUCTS ENTERED INTO COMMERCE THAT MAY BE BASED ON THIS TEST. BERKELEY ANALYTICAL PROVIDES THIS CERTIFICATE OF COMPLIANCE "AS IS" WITHOUT WARRANTY OF ANY KIND, EITHER EXPRESSED OR IMPLIED, INCLUDING BUT NOT LIMITED TO, THE IMPLIED WARRANTIES OF MERCHANTABILITY OR FITNESS FOR ANY PURPOSE.

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