Eco Safety Products
Bio-Renewable Coatings & Chemicals Manufacturer

July 22, 2021

Product Manufacturer: Eco Safety Products
Testing Laboratory: Berkeley Analytical
Declaration #: ECO2021-2

Supplier Declaration of Conformity and Claim of Low VOC Emissions, Extended Claim for Co-Products

Product Line: EcoProCote Coatings

The VOC assessment for the VOCs off gassed by the product line EcoProCote, referred to as Eco-Tuff HT Coating, ET-6800, manufactured by Eco Safety Products, was tested by Berkeley Analytical, in certificate number 180301-02, issued March 1, 2018.

Standard Method for the Testing and Evaluation of Volatile Organic Chemical Emissions from Indoor Sources Using Environmental Chambers Version 1.2 was performed with the intent of determining the state of compliance of the materials for USGBC LEED v4, MR credit for Low Emitting Materials. A complete listing of all products included as a part of this Extended Claim for Co-Products, for the tested product, Eco-Tuff HT Coating, ET-6800, are detailed in Table 1 below. All calculations and assumptions are based on the model data that is for predicted VOC concentration in air in 30.6 m^3 or 231 m^3 of an indoor environment. For purposes of the report calculations are based on the Private Office (30.6 m^3) and School Classroom (231 m^3).

In accordance with the Standard Method for the Testing and Evaluation of Volatile Organic Chemical Emissions from Indoor Sources Using Environmental Chambers Version 1.2 as prepared by the California Department of Public Health, dated January 2017, Section 8.7.1.5

> "A range of product models, brands and/or styles with varying characteristics may be grouped together for testing purposes if the products can be expected to have virtually the same performance during testing and use. A test group shall only include models which are made using the same production methods and are comprised of the same product ingredients (formulation). The test sample shall be selected from the model in the group that can be expected to give the worst results for the test taking into consideration special attributes, materials, methods of manufacturing, suppliers, etc."

This allows for the full line of products with similar chemical composition to be listed in Table 1.

Table 1:Eco Safety Products covered in this declaration, Extended Claim for Co-Products- Sealers and Coatings

Eco-Poly Sealer & Finish	Bio-Based Clear Polyurethane Sealer

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Eco-Tuff Clearcoat	Bio-Based Polyurethane Clearcoat
Eco-Tuff Floor Coating	Bio-Based Polyurethane Floor Coating
Eco-Tuff Wood Finish	Bio-Based Polyurethane Clearcoat
Eco-Tuff Quick Prime Clear Primer	Bio-Based Polyurethane Primer
Eco-Tuff Primecoat Primer	Bio-Based Polyurethane Primer

LEED v4.1 Green Building Rating System

The USGBC LEED v4 rating system contains a credit EQ Credit: Low Emitting Materials. The intent of this credit is to reduce concentrations of chemical contaminants that can damage air quality, human health, productivity, and the environment.

> "Building products must be tested and determined compliant in accordance with California Department of Public Health (CDPH) Standard Method vl.1-2010, using the applicable exposure scenario. The default scenario is the private office scenario. The manufacturer's or third-party certification must state the exposure scenario used to determine compliance."

Manufacturers' claims of compliance must state the range of total VOCs after 14 days (336 hours), measured as specified in the CDPH Standard Method vl.1:

- 0.5 mg/m^3 or less; between 0.5 and 5.0 mg/m^3; or 5.0 mg/m^3 or more.

The manufactured product, tested by Berkeley Analytical, in certificate number180301-02, issued March 1, 2018, are compliant with this low emitting material standard with a 14-day Total VOC of 0.5 mg/m^3." This is based on the modeled scenario for a private office at 30.0 m^3 and school classroom 231 m^3. The certificate attached.

John Bennett

Founder/CEO
Phoenix, AZ

COMPLIANCE TESTED by berkeley analytical

VOC Emission Test Certificate

Product Name: Eco-Tuff Coating

Product Sample Information	
Company:	Eco Safety Products
Company Website:	www.ecosafetyproducts.com
Product Type:	Floor Sealants
Date Produced:	2/7/2018

Certificate Information	
Certificate No:	180301-02
Certified By:	Raja S. Tannous, Laboratory Director
Date:	March 1, 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 mg/m^3
Private Office	≤½ Chronic REL	YES	≤9.0 µg/m^3	YES	≤ 0.5 mg/m^3

Product Coverage[5]: 164 g/m^2

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/m^3, effective Jan 1, 2012; previous limit was ≤16.5 µg/m^3 (ibid.)
4. Informative only; predicted TVOC Range in three categories, i.e., ≤0.5 mg/m^3, >0.5 – 4.9 mg/m^3, and ≥5.0 mg/m^3
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

Narrative: Eco Safety Products selected a sample representative of its Eco-Tuff Coating product and submitted it on 2/9/2018 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, 1023-001-02A-Mar0118.

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.