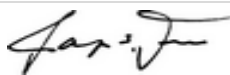




COMPLIANCE TESTED by berkeley analytical

VOC Emission Test Certificate

Product Name: QuietSeal® Pro

Product Sample Information		Certificate Information	
Company:	PABCO Gypsum	Certificate No:	190214-02
Company Website:	www.pabco gypsum.com	Certified By:	 Raja S. Tannous, Laboratory Director
Product Type:	Acoustical Sealant	Date:	February 14, 2019
Date Produced:	1/8/2019		

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?	
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 Coverage⁵: 110 g/m² (based on ¼" bead thickness)

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: PABCO Gypsum selected a sample representative of its QuietSeal® Pro - acoustical sealant product and submitted it on 1/18/2019 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, 418-021-07A-Feb1419.

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.



January 25, 2019

Subject: RE: VOC Emission Testing; CDPH Standard Method V1.2; non-full spread application calculations

Below are the rationale and the calculations for quantity of QuietSeal Pro® product by QuietRock® by PABCO Gypsum, that would be used in the standard school classroom and the standard private office defined in CDPH Standard Method V1.2.

Classroom:

At ¼" bead thickness, one tube (28 oz or 3 lbs) of QuietSeal Pro provides 88 linear feet.

Application of ¼" bead of QuietSeal Pro along the perimeter of the walls in a class room with dimensions specified below would require,

40' long side = $40 \times 4 = 160$ ft

24' wide side = $24 \times 4 = 96$ ft

8.5' high = $8.5 \times 4 = 34$ ft

Total bead length = 290 linear ft

*Total number of tubes = $290/88 = 3.40 \times 3$ (weight of QuietSeal Pro/tube) = **10.2 lbs***

Office:

Application of ¼" bead of QuietSeal Pro along the perimeter of the walls in an office with dimensions specified below would require,

12' long side = $12 \times 4 = 48$ ft

10' wide side = $10 \times 4 = 40$ ft

9' high = $9 \times 4 = 36$ ft

Total bead length = 124 linear ft

*Total number of tubes = $124/88 = 1.41 \times 3$ (weight of QuietSeal Pro/tube) = **4.2 lbs***

Sunder Ram

Sunder Ram, Ph.D.
Sr. R&D Staff Member



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