



# COMPLIANCE TESTED by berkeley analytical

## VOC Emission Test Certificate

**Product Name: Edge-Pro 90 - MMEP90C-600-12**

Product Sample Information		Certificate Information	
Company:	Metzger McGuire	Certificate No:	200428-01
Company Website:	www.metzgermcguire.com	Certified By:	 Raja S. Tannous, Laboratory Director
Product Type:	Joint Filler for Concrete Floors	Date:	April 28, 2020
Date Produced:	1/22/2020		

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

**Product Coverage<sup>5</sup>:** 366 g/m<sup>2</sup>

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<sup>3</sup>, effective Jan 1, 2012; previous limit was ≤16.5 µg/m<sup>3</sup> (*ibid.*)
4. Informative only; predicted TVOC Range in three categories, i.e., ≤0.5 mg/m<sup>3</sup>, >0.5 – 4.9 mg/m<sup>3</sup>, and ≥5.0 mg/m<sup>3</sup>
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:** Metzger McGuire selected a sample representative of its Edge-Pro 90, a two-part joint filler for concrete floors, MMEP90C-600-12 product and submitted it on 4/1/2020 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, 1040-003-01A-Apr2820.

**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.



March 18, 2020

To Whom It May Concern

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

Below are the rationale and the calculations for quantity of Metzger/McGuire Edge-Pro 90 Heavy Duty Semi-Rigid Polyurea Joint Filler that would be used in the standard school classroom and the standard private office defined in CDPH Standard Method V1.2.

#### CLASSROOM

As the Metzger/McGuire Edge-Pro 90 joint filler is only designed for use in filling sawcut contraction joints or construction joints in a concrete floor, the overall quantity of material should not exceed the overall lineal footage count of joints and will be based on joint dimension. American Concrete Institute guidelines (and common industry practice) is to place joints no further apart than  $30t$  where  $t$ =slab thickness. Most slabs on ground or elevated slabs on deck in schools are placed at depths of 4-5" in thickness. At 5" anticipated slab thickness joint spacing would be approx. 12.5' on center. In a 40'x24' room (ceiling height of 8.5' not relevant as this is only for floor) following guidelines there would be 3 joints 24' long and 1 joint 40' long. That's a total of 112 lf of joint. Typical sawcut joints are cut at 1/8" wide and t/4 deep – or 1.25" in a 5' slab. Due to normal concrete shrinkage, joints typically open to 3/16" in width by time of filler installation. Coverage rate for joints 3/16" wide x 1.25" deep is 85 lineal feet/gallon. Accordingly, the maximum amount of material that would be used in "worst case" scenario in a 40x24x8.5' room would be approximately 1.35 gallons. Coverage rates are referenced on Edge-Pro 90 Technical Data Sheet.

#### OFFICE

As the Metzger/McGuire Edge-Pro 90 joint filler is only designed for use in filling sawcut contraction joints or construction joints in a concrete floor slab overall quantity of material should not exceed overall lineal footage count of joints and will be based on joint dimension. American Concrete Institute guidelines (and common industry practice) is to place joints no further apart than  $30t$  where  $t$ =slab thickness. Most slabs on ground in schools are placed at depths of 4-5" in thickness. At 5" anticipated joint spacing would be approx. 12.5 feet on center. In a 12'x10' room (ceiling height of 9' not relevant as this is only for floor) following guidelines there would be no saw cut joints required. Assuming a designer decided to include at least one saw cut in both directions for decorative purposes, the result would be one joint 12' long and one joint 5' long for a total of 15 lf. Due to normal concrete shrinkage, joints typically open to 3/16" in width by time of filler installation. Coverage rate for joints 3/16" wide x 1.25" deep is 85 lineal feet/gallon. Accordingly, the maximum amount of material that would be used in "worst case" scenario in a 12'x10'x9' room would be approximately 0.25 gallon.

Please contact me should you have further questions or concerns regarding this issue.

Best Regards,

Scott Metzger  
President

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