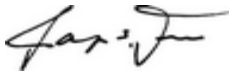
COMPLIANCE TESTED by berkeley analytical

VOC Emission Test Certificate

Product Name: 1600 UPG-1651

Product Sample Information	
Company:	Flextile Ltd.
Company Website:	www.flextile.net
Product Type:	Grouting (see attached letter)
Date Produced:	6/16/2023

Certificate Information	
Certificate No:	230810-05
Certified By:	 Raja S. Tannous, Laboratory Director
Date:	August 10, 2023

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/m³	YES	≤ 0.5 mg/m³
Private Office	≤½ Chronic REL	YES	≤9.0 µg/m³	YES	≤ 0.5 mg/m³

Product Coverage[5]: 19,330 g/m² (non-full spread application)

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 4/4.1, BD&C, ID&C, Residential BD&C Multifamily
- The WELL Building Standard, WELL v2, Feature X06
- ANSI/GBI 01-2019 Green Globes Assessment Protocol
- ANSI/ASHRAE/USGBC/IES Standard 189.1

Narrative: Flextile Ltd. selected a sample representative of its 1600 UPG-1651 - a tile grout product and submitted it on 7/13/2023 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, 697-007-06A-Aug1023.

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.

Flextile Ltd.

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July 24, 2023

Berkeley Analytical Associates, LLC
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Richmond, CA 94804-3614

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

To Whom It May Concern,

Below is the rationale and calculations for quantity of Flextile *1600 UPG Ultra Performance Grout* that would commonly be used in the standard school classroom and the standard private office scenes as defined in CDPH Standard Method V1.2.

CLASSROOM

Maximum spread rate for Wall Tile applications in a 40' x 8.5' school classroom would involve the installation of 2”x 2” tiles with a 1/8” (3mm) joint width and ¼” (6mm) joint depth. The amount of 1600 UPG necessary would be 89 lbs (40.6 kg) of material, or 10% of total area.

Maximum spread rate for Floor Tile applications in a 40' x 24' school classroom would involve the installation of 12”x 24” tiles with a ¼” (6mm) joint width and ¼” (6mm) joint depth. The amount of 1600 UPG necessary would be 63 lbs (28.7 kg) of material, or 3% of total area.

PRIVATE OFFICE

Maximum spread rate for Wall Tile applications in a 12' x 9' standard office would involve the installation of 2”x 2” tiles with a 1/8” (3mm) joint width and ¼” (6mm) joint depth. The amount of 1600 UPG necessary would be 28 lbs (12.9 kg) of material, or 10% of total area.

Maximum spread rate for Floor Tile applications in a 10' x 12' standard office would involve the installation of 12”x 24” tiles with a ¼” (6mm) joint width and ¼” (6mm) joint depth. The amount of 1600 UPG necessary would be 8 lbs (3.6 kg) of material, or 3% of total area.

Regards,
Flextile Ltd.



Diana Bauer
Chief Chemist - Quality Control & R&D