CONFIDENTIAL
Test data and interpretation applicable to
GREENGUARD Certification Program only

GREENGUARD CERTIFICATION PROGRAM
OUT-OF-SCOPE PROFILE STUDY TEST REPORT

SAMPLE INFORMATION

Customer:	LATICRETE INTERNATIONAL INC
Sample Identification:	UL Environment's 1000198417-743514
Product Description:	ADHESIVES/SEALANTS; Laticrete Spartacote Flex Pure (one-sided area = 0.03610 m²)
Product Loading:	0.42 m²/m³
Test Period:	01/19/2017 - 01/20/2017
Test Conditions:	1.00 ± 0.05 ACH 50% RH ± 5% RH 23° C ± 2° C
Test Description:	The product was received by UL Environment on 01/10/17 as packaged and shipped by the customer. The package was visually inspected and stored in a controlled environment immediately following sample check-in. Just prior to loading, the product was applied to a foil-wrapped metal tray according to the main application method listed in the product instructions. The sample was immediately placed inside the environmental chamber, and tested according to the specified protocol.
ASTM Test Method:	ASTM D 5116 (0.09 ± 0.007 m³ chamber)

RESULTS

Analyte	24 Hour Emission Factor (µg/m²•hr)	168 Hour Predicted Concentration		
		GREENGUARD	GREENGUARD Gold	
			Office	Classroom
TVOC	8,610	4.0 mg/m³	3.4 mg/m³[TT]	3.0 mg/m³[TT]
Formaldehyde	BQL	< 0.001 ppm	< 0.001 ppm	< 0.001 ppm
Total Aldehydes	BQL	< 0.001 ppm	< 0.001 ppm	< 0.001 ppm

[TT]336 hour predicted concentration

MODELING PREDICTED CONCENTRATION PARAMETERS

Certification Program	Environment Basis	Product Usage	Surface Area (m²)	Room Volume (m³)	ACH (1/hr)	Assumed Decay Parameters		
						k_T	k_F	k_A
GREENGUARD and GREENGUARD Gold Office	CDPH/EHLB/Standard Method V1.1	floor	11.1	30.6	0.68	0.001	0.006	0.002
GREENGUARD Gold Classroom	CDPH/EHLB/Standard Method V1.1	floor	89.2	231	0.82	0.001	0.006	0.002

IDENTIFIED INDIVIDUAL VOLATILE ORGANIC COMPOUNDS AT 24 ELAPSED EXPOSURE HOURS

CAS Number	Compound Identified	Emission Factor (µg/m²•hr)
1193-11-9	1,3-Dioxolane, 2,2,4-trimethyl*	2,780
623-91-6	2-Butenedioic acid (E)-, diethyl ester*	2,490
13588-28-8	1-Propanol, 2-(2-methoxypropoxy)-*	2,480
13429-07-7	2-Propanol, 1-(2-methoxypropoxy)-*	652

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IDENTIFIED INDIVIDUAL VOLATILE ORGANIC COMPOUNDS AT 24 ELAPSED EXPOSURE HOURS		
CAS Number	**Compound Identified**	**Emission Factor (µg/m²•hr)**
10601-80-6	Ethyl 3,3-diethoxypropionate*	147
626-11-9	Butanedioic acid, hydroxy-, diethyl ester,*	27.1
25265-77-4	2,2,4-Trimethyl-1,3-pentanediol monoisobutyrate	10.2
78-93-3	2-Butanone (Methyl ethyl ketone, MEK)†	8.9
111-55-7	1,2-Ethanediol, diacetate (Ethylene glycol diacetate)	8.7
20324-32-7	2-Propanol, 1-(2-methoxy-1-methylethoxy)	5.3

*Indicates NIST/EPA/NIH best library match only based on retention time and mass spectral characteristics.
†Denotes quantified using multipoint authentic standard curve. Other VOCs quantified relative to toluene.

TARGET LIST ALDEHYDES AT 24 ELAPSED EXPOSURE HOURS		
CAS Number	**Compound Identified**	**Emission Factor (µg/m²•hr)**
4170-30-3	2-Butenal	BQL
75-07-0	Acetaldehyde	BQL
100-52-7	Benzaldehyde	BQL
5779-94-2	Benzaldehyde, 2,5-dimethyl	BQL
529-20-4	Benzaldehyde, 2-methyl	BQL
620-23-5 /104-87-0	Benzaldehyde, 3- and/or 4-methyl	BQL
123-72-8	Butanal	BQL
590-86-3	Butanal, 3-methyl	BQL
50-00-0	Formaldehyde	BQL
66-25-1	Hexanal	BQL
110-62-3	Pentanal	BQL
123-38-6	Propanal	BQL

Analyses based on EPA Compendium Method TO-17 and ASTM D 6196 for VOCs by thermal desorption followed by gas chromatography/mass spectrometry (TD/GC/MS), and EPA Method TO-11A and ASTM D 5197 for selected aldehydes by high performance liquid chromatography (HPLC).

BQL denotes below quantifiable level of 0.04 µg based on a standard 18 L air collection volume for TVOC and individual VOCs and 0.1 µg based on a standard 45 L air collection volume for formaldehyde and total aldehydes.

This test data is provided for general informational purposes only. The data indicate the level of emissions from the designated product and how they compare to the emission criteria of the GREENGUARD and GREENGUARD Gold standards. This data does not imply that the product has been qualified to meet the requirements of the GREENGUARD Certification program nor does it imply that the product is or is not certified by the GREENGUARD Certification program.

This test is accredited under the laboratory's ISO/IEC 17025 accreditation issued by ANSI-ASQ National Accreditation Board. Refer to certificate and scope of accreditation AT-1297.

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