



GREENGUARD CERTIFICATION PROGRAM PROFILE STUDY TEST REPORT						
Product Description		LAPIS BLUE MATT (7MM)				
Category		FLOORING				
SUMMARY		Environment	TVOC	Formaldehyde	Total Aldehydes	CREL/TLV
	GREENGUARD	Office	✓	✓	✓	✓
	GREENGUARD Gold	Office	✓	✓	✓	✓
		Classroom	✓	✓	✓	✓
✓ - meets criteria; ✓* - meets within 25%; X - over by more than 25% of criteria						

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. A summary of the allowable emission limits for GREENGUARD Certification and GREENGUARD Gold Certification can be found [here](#).

Customer Information	HITIT SERAMIK SANAYI VE TICARET A.S. MUSTAFA KAYA RESITPASA MAHALLESİ ESKI BUYUKDERE CAD. WINDOWIST TOWER NO:26 KAT:15/105 MASLAK-SARIYER ISTANBUL 34467 TURKEY
Authorized by	 Allyson M. McFry Chemistry Laboratory Director

SAMPLE INFORMATION			
Test Description	The product was received by UL Environment 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 unpackaged and prepared for the required loading to expose the top surface only. The sample was placed inside the environmental chamber and tested according to the specified protocol.		
Date Received	April 12, 2023		
Test Period	April 18, 2023 - April 19, 2023		
Area	one-sided area = 0.0367 m ²		
Environmental Chamber ID and Volume	SI2 - 0.0854 m ³		
Product Loading	0.43 m ² /m ³		
Test Conditions	1.00 ± 0.05 ACH 50% RH ± 5% RH 22.3°C - 23.3°C		
***Laboratory Locations	Testing Laboratory	Analytical Laboratory	Technical Reporting Location
	ULE - Marietta	ULE - Marietta	ULE - Marietta

The temperature range specification is 23°C ± 1°. The actual temperature range listed above may vary slightly. If the range is outside this specification, data was reviewed to ensure a negative impact did not occur.

MODELING PREDICTED CONCENTRATION PARAMETERS								
Certification Program	Environment Basis	Product Usage	Surface Area (m ²)	Room Volume (m ³)	ACH (1/hr)	Assumed Decay Parameters		
						k _T	k _F	k _A
GREENGUARD and GREENGUARD Gold Office	CDPH/EHLB/Standard Method	floor	11.1	30.6	0.68	0.003	0.002	0.002
GREENGUARD Gold Classroom	CDPH/EHLB/Standard Method	floor	89.2	231	0.82	0.003	0.002	0.002

RESULTS				
Analyte	24 Hour Emission Factor (µg/m ² •hr)	168 Hour Predicted Concentration		
		GREENGUARD	GREENGUARD Gold	
			Office	Classroom
TVOC	BQL	< 0.002 mg/m ³	< 0.002 mg/m ³	< 0.001 mg/m ³
Formaldehyde	BQL	< 0.002 ppm	< 0.002 ppm	< 0.001 ppm
Total Aldehydes	BQL	< 0.002 ppm	< 0.002 ppm	< 0.001 ppm

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.

IDENTIFIED VOLATILE ORGANIC COMPOUNDS AT 24 ELAPSED EXPOSURE HOURS		
CAS Number	Compound	Emission Factor (µg/m ² •hr)
---	none	---

Quantifiable level is 0.04 µg based on a standard 18 L air collection volume.

*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	Emission Factor (µg/m ² •hr)
4170-30-3	2-Butenal	
75-07-0	Acetaldehyde	
100-52-7	Benzaldehyde	
5779-94-2	Benzaldehyde, 2,5-dimethyl	
529-20-4	Benzaldehyde, 2-methyl	
620-23-5/104-87-0	Benzaldehyde, 3- and/or 4-methyl	
123-72-8	Butanal	
590-86-3	Butanal, 3-methyl	
50-00-0	Formaldehyde	
66-25-1	Hexanal	
110-62-3	Pentanal	
123-38-6	Propanal	

Quantifiable level is 0.1 µg is based on a standard 45 L air collection volume



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).

Testing followed UL 2821, "GREENGUARD Certification Program Method for Measuring and Evaluating Chemical Emissions From Building Materials, Finishes and Furnishings Using Dynamic Environmental Chambers" 2013.

*Accredited Laboratory Locations	
Location	Address
ULE - Marietta	UL Environment 2211 Newmarket Parkway, Marietta, GA 30067-9399 USA
ULE - Guangzhou	UL Verification Services (Guangzhou) 1-3F & Room 501, Building 2 (R&D Center A1), No. 25, South Huanshi Avenue, Nansha District, Guangzhou 511458, China
ULE - Cabiante	UL International Italia S.r.l ATTN: IAQ Laboratory Via Europa, 9, I – 22060 – Cabiante (Como), Italia
ULE - Vietnam	UL VS (VIET NAM) CO. LTD., Lot C5, Conurbation 2, Street K1, Cat Lai Industrial Zone, Thanh My Loi Ward, District 2, Ho Chi Minh City, Vietnam
UL - Shimadzu	Shimadzu Techno-Research, Inc. 1, Nishinokyo-Shimoaicho Nakagyo-ku, Kyoto 604-8436 Japan
KCL	Korea Conformity Laboratories #805, I-Valley, 149 Gongdan-ro Gunpo-si, Gyeonggi-do, 15849 Korea
Normec	Normec Product Testing N.V. Honderdweg 13, 9320 Wetteren Belgium

Date Issued: April 25, 2023
 Product ID #: 1001858382-5981029
 Test Report #: 1001858382-5981029
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 V2PSBCM

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Product and Company Information																										
Product Description		LAPIS BLUE MATT (7mm)																								
Manufacture ID#																										
Company Name		Hitit Seramik Sanayi ve Ticaret A.S.																								
		Date Manufactured 03.12.2022																								
		Contact Name Mustafa KAYA																								
Address		Organize Sanayi Bölgesi 101.caddesi No:1 UŞAK/TURKEY																								
		Job Title Quality Assurance Manager																								
		Contact Phone 05321312080																								
		Contact Email Mustafa.kaya@hititseramik.com																								
Collection Information																										
Collector Name		DHL																								
Collector Phone																										
Collector Signature																										
		Date Collected 4/7/2023																								
		Time Collected _____																								
		Collection Location _____																								
Shipping Information																										
Carrier		DHL																								
Shipper Name		Mustafa KAYA																								
Shipper Phone		05321312080																								
Shipper Signature																										
		Date Shipped 4/7/2023																								
		Time Shipped _____																								
		Air Bill # 6371265776																								
Sample Submitted to																										
<input checked="" type="checkbox"/> UL Environment (Marietta) 2211 Newmarket Pkwy Suite 106 Marietta, GA 30067, USA		<input type="checkbox"/> UL Verification Services (Guangzhou) Building A1, 3F, Nansha Science and Technology Innovation Ctr. No. 25, South Huanshi Avenue, Nansha District, Guangzhou 511458, China																								
		<input type="checkbox"/> UL International Italia S.r.l ATTN: IAQ Laboratory Via Europa, 9 I - 22060 - Cabiato (Como), Italia																								
		<input type="checkbox"/> Other _____																								
Post Testing Sample Disposition (Sample will be disposed of 30 days after report is issued if information below is not provided)																										
Return Shipping Co.		Customer Shipping Acct #																								
Internal Use Only – Receiving Information																										
Receiver Name		Receiver Signature																								
Condition Upon Arrival		Receive Date																								
<input checked="" type="checkbox"/> Acceptable <input type="checkbox"/> Not Acceptable		4/12/23																								
Condition Notes		Receive Time																								
Completed By		Date																								
		15:00 AM																								
		Based On																								

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