



October 21, 2025

Schluter Systems
Attn: Kali Pharand
194 Pleasant Ridge Road
Plattsburgh, NY 12901

Dear Kali Pharand,

The sample you identified as “DITRA” was tested per CA 01350 VOC Emissions per your request (IPAL Test Report: IPAL-0622-25). The testing was performed by Research Triangle Park (RTP) Laboratories in Raleigh, NC. All comments, findings, and interpretations within this report were made by RTP Laboratories.

The following is an image of the sample submitted for testing.



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10/21/2025

Damon McDowell
Laboratory Supervisor

Research Triangle Park Laboratories, Inc.

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Raleigh, NC 27617

919 510-0228 Telephone
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Web Site: www.rtp-labs.com



ISO 17025 Compliant
PA Registration #68-1664
DEA Registered

October 16, 2025

International Product Assurance Laboratories
100 Clemson Research Boulevard
Anderson, SC 29625

Attn: Ashley Moore

PROJECT: VOCs Testing –Report of VOC Chamber Tests.

Purchase Order: 4721

RTP Labs ID: 25-071-01 Schluter Systems “DITRA” Membrane (IPAL-0622-25)

Enclosed with this letter is the report for the sample received on September 29, 2025, in good condition. The manufacturing date is listed on the COC form. The sample was tested for VOCs emissions according to ASTM D5116 Small Chamber Test and California Specification 01350 Test Methods. The sample was prepared according to the sample preparation descriptions as described in CA 01350. The chamber testing was started on October 2, 2025, with a 10-day conditioning period, followed by a 96-hour test as described in CA 01350.

The test results are summarized in the attached document. The testing method reporting limits are 0.001 mg/m³ using the California Standard Classroom and Office Models.

If you have any questions, please give me a call at (919) 510-0228.

Sincerely,

Alston Sykes, Principal Chemist
Attachments: attachments and photos

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International Product Assurance
LABORATORIES

Chain of Custody Form

For Testing of Product/Material per CA DHS Section 01350

Please fill out a separate chain of custody form for each product tested

General Information (Section A)		
Section A	Manufacturer Name: Schluter Systems	
	Street Address: 194 Pleasant Ridge Road	
	City/State: Plattsburgh, NY	
	Zip/Postal Code: 12901	
	Country: United States	
	Contact Name: Kali Pharaud	
	Contact Title: Product Standards and Sustainability Coordinator	
	Phone/Fax Numbers: 888-492-4588 x 4152	
Email Address: sustainability@schluter.com		
Sampling Information (Section B)		
Section B	Product Name: Schluter DITRA	
	Manufacturer Product ID #: DITRA	
	Sample ID # (Same as TCNA Test Report #): DITRA	
	Product Category: Membranes	
	Product Subcategory:	
	Date Manufactured: Aug 125	
	Plant Name and Location: PLATTSBURGH NY	
	Date and Time Sample Collected from Plant: 9/19/25	
	Collection Location within Plant: SAMPLES	
	Number of Sample Pieces Collected (Attach Photos): 1	
Sample Collected by: SHAMIM MONDAL	Signature: Shamim Mondal	
Sample Packaged and Shipped to TCNA By: SHAMIM MONDAL	Signature: Shamim Mondal	
Shipping Date: 9/19/25		
Carrier/Airbill Number:		
IPAL Receipt Information (Section C)		
Section C	Arrival to: IPA Laboratories 100 Clemson Research Boulevard Anderson, SC 29625	
	Receipt Date: 9-20-2025	
	Received By: A. MOORE	Signature: amore
	Logged into TCNA Database by: A. MOORE	
	TCNA Test Report #: 06022-25	
	Shipment Forwarded To RTP Laboratories By: A. MOORE	Signature: amore
	Shipment Date: 9-20-2025	
Carrier/Airbill Number: UPS-		
RTP Laboratories Receipt Information (Section D)		
Section D	Arrival to: Research Triangle Park Laboratories, Inc. 7201 ACC Blvd., Suite 104 Raleigh, NC 27617	
	Receipt Date: 9-29-25	
	Received By: A. Sykes	Signature: A. Sykes
	Condition of Shipping Package: Good	
	Condition of Sample: Good	
	Laboratory ID #: 25-071-01	

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Photo of Sample Received September 29, 2025:
25-071-01 (IPAL-0622-25) Schluter "Ditra", Manf Aug '25.



Research Triangle Park Laboratories Inc, 7201 ACC Blvd., Raleigh, NC 27617

California 01350/ASTM D5116 Small Chamber Tests for Volatile Organic Compound Emissions From Products

Project ID: 25-071-01

Client: Tile Council

Sample Receipt Date: Sept 29, 2025

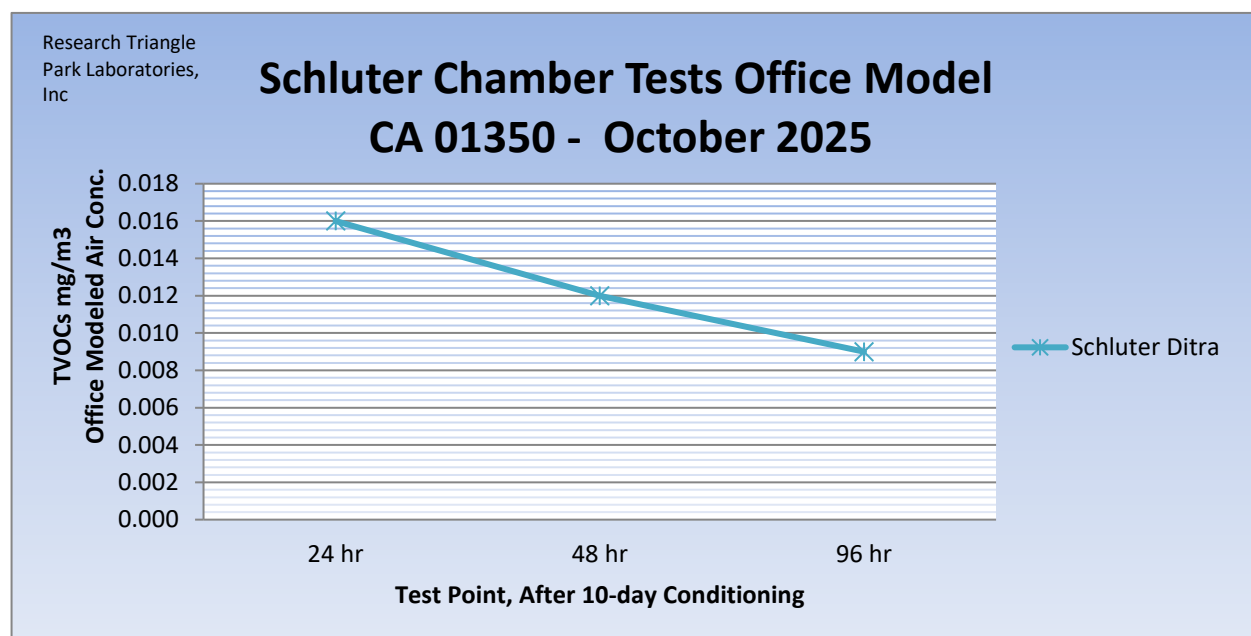
Test Start Dates: Oct 2, 2025

Products:

Schluter Ditra

Modeled Standard Office Concentration, mg/m³

24 hr	48 hr	96 hr	LOQ
0.016	0.012	0.009	0.001



Standard Office Model Parameters:

Room Dimensions: 12 ft length x 10 ft wide x 9.0 ft ht

Room Volume: 30.6 m³

Ventilation Rate: 0.68 air changes per hour

Net Floor Surface: 11.15 m²

Chamber and Sample Conditions:

Chamber Volume: 50 Liters

Temperature: 20-25 C; Relative Humidity: 45-55 %

Air Exchange Rate: 1 per hour (0.833L/min = 50 liters)

Sample Surface Area: 0.0232 m²

Sample Loading Factor: 0.5 m²/m³

Office Model Report

Sample Receipt Date: 9/29/2025
Project ID: 25-071-01
Sample ID: Schluter Ditra (IPA 0622-25)
Client: IPA Laboratories

Test Start Date: 10/2/2025

10 day conditioning performed prior to 96 h testing.

Standard Office Parameters
 Room Dimensions, ft 12x10x9.0

ASTM D5116 Small Chamber Method

Room Volume, m3 **30.6**
 Ventilation Rate, ach **0.68**
 Net Surface Area, m2 **11.15**

California Specification 01350
 Office Paints and Wallcoverings Model: 33.4 m2
 Office Flooring Products Model: 11.15 m2

Compound Name	Emission Factors (ug/(m2*h))						Cm	Cm	Cm	1/2 CREL 12/2008 (A)Acute (C)Chronic
	10/13/25 24 hr Chamber Conc. ug/m3	24 hr EF	10/14/25 48 hr Chamber Conc. ug/m3	48 hr EF	10/16/25 96 hr Chamber Conc. ug/m3	96 hr EF	Office: 24 hr Modeled Air Conc. ug/m3	Office: 48 hr Modeled Air Conc. ug/m3	Office: 96 hr Modeled Air Conc. ug/m3	
<u>GC/MS Target, LOQ 2 ng/L (ug/m3)</u>										
Ethyl acetate	14.2	11.6	21.2	17.3	16.9	13.8	6.2	9.3	7.4	
	0	0.0	0	0.0	0	0.0	0.0	0.0	0.0	
	0	0.0	0	0.0	0	0.0	0.0	0.0	0.0	
<u>GC/MS TICs, LOQ 5 ng/L (ug/m3)</u>										
1,2-diethoxyethane	15.1	12.3	0	0.0	0	0.0	6.6	0.0	0.0	
	0	0.0	0	0.0	0	0.0	0.0	0.0	0.0	
	0	0.0	0	0.0	0	0.0	0.0	0.0	0.0	
	0	0.0	0	0.0	0	0.0	0.0	0.0	0.0	
	0	0.0	0	0.0	0	0.0	0.0	0.0	0.0	
	0	0.0	0	0.0	0	0.0	0.0	0.0	0.0	
<u>HPLC Aldehydes, LOQ 2 ng/L (ug/m3)</u>										
Formaldehyde	3.8	3.1	2.6	2.1	1.3	1.1	1.7	1.1	0.6	4.5 C
Acetaldehyde	2.8	2.3	2.9	2.4	1.5	1.2	1.2	1.3	0.7	70 C
TVOCs LOQ 25 ng/L (ug/m3) Use 1 for < value	35.9	29.3	26.7	21.8	19.7	16.1	15.7	11.7	8.6	ug/m3
							0.016	0.012	0.009	mg/m3

Reporting Limit, 0.001 mg/m3

Research Triangle Park Laboratories Inc, 7201 ACC Blvd., Raleigh, NC 27617

California 01350/ASTM D5116 Small Chamber Tests for Volatile Organic Compound Emissions From Products

Project ID: 25-071-01

Client: Tile Council

Sample Receipt Date: Sept 29, 2025

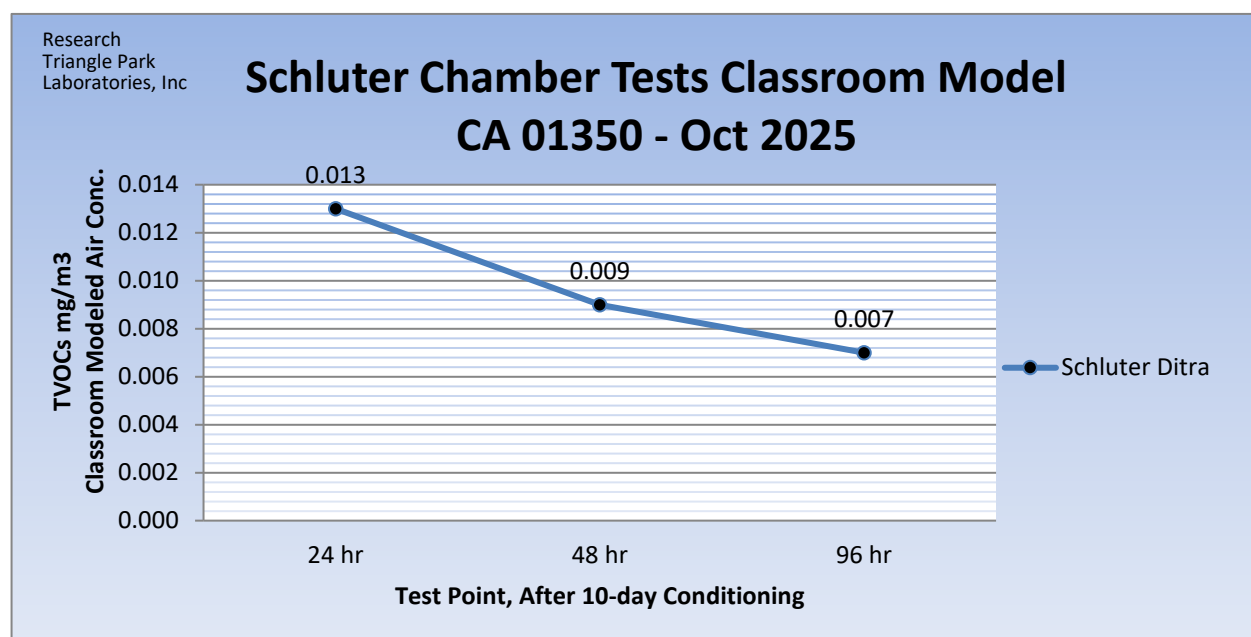
Test Start Dates: Oct 2, 2025

Products:

Schluter Ditra

Modeled Standard Classroom Concentration, mg/m³

24 hr	48 hr	96 hr	LOQ
0.013	0.009	0.007	0.001



Standard Classroom Model Parameters:

Room Dimensions: 40 ft length x 24 ft wide x 8.5 ft ht

Room Volume: 231 m³

Ventilation Rate: 0.90 air changes per hour

Net Floor Surface: 89.2 m²

Chamber and Sample Conditions:

Chamber Volume: 50 Liters

Temperature: 20-25 C; Relative Humidity: 45-55 %

Air Exchange Rate: 1 per hour (0.833L/min = 50 liters)

Sample Surface Area: 0.0232 m²

Sample Loading Factor: 0.5 m²/m³

Classroom Model Report

Sample Receipt Date: 9/29/2025
 Project ID: 25-071-01
 Sample ID: Schluter Ditra (IPA 0622-25)
 Client: IPA Laboratories

Test Start Date: 10/2/2025

10 day conditioning performed prior to 96 h testing.

Standard Classroom Parameters

Room Dimensions, ft 40x24x8.5

Room Volume, m3 231

Ventilation Rate, ach 0.9

Net Surface Area, m2 89.2

ASTM D5116 Small Chamber Method

California Specification 01350
 Paints and Wallcoverings Model: 94.6 m2
 Flooring Products Model: 89.2 m2

Compound Name	Emission Factors (ug/(m2*h))						Cm	Cm	Cm	1/2 CREL 12/2008 (A)Acute (C)Chronic
	10/13/25 24 hr Chamber Conc. ug/m3	24 hr EF	10/14/25 48 hr Chamber Conc. ug/m3	48 hr EF	10/16/25 96 hr Chamber Conc. ug/m3	96 hr EF	Classroom: 24 hr Modeled Air Conc. ug/m3	Classroom: 48 hr Modeled Air Conc. ug/m3	Classroom: 96 hr Modeled Air Conc. ug/m3	
<u>GC/MS Target, LOQ 2 ng/L (ug/m3)</u>										
Ethyl acetate	14.2	11.6	21.2	17.3	16.9	13.8	5.0	7.4	5.9	
	0	0.0	0	0.0	0	0.0	0.0	0.0	0.0	
	0	0.0	0	0.0	0	0.0	0.0	0.0	0.0	
<u>GC/MS TICs, LOQ 5 ng/L (ug/m3)</u>										
1,2-diethoxyethane	15.1	12.3	0	0.0	0	0.0	5.3	0.0	0.0	
	0	0.0	0	0.0	0	0.0	0.0	0.0	0.0	
	0	0.0	0	0.0	0	0.0	0.0	0.0	0.0	
	0	0.0	0	0.0	0	0.0	0.0	0.0	0.0	
	0	0.0	0	0.0	0	0.0	0.0	0.0	0.0	
	0	0.0	0	0.0	0	0.0	0.0	0.0	0.0	
<u>HPLC Aldehydes, LOQ 2 ng/L (ug/m3)</u>										
Formaldehyde	3.8	3.1	2.6	2.1	1.3	1.1	1.3	0.9	0.5	4.5 C
Acetaldehyde	2.8	2.3	2.9	2.4	1.5	1.2	1.0	1.0	0.5	70 C
TVOCs LOQ 25 ng/L (ug/m3) Use 1 for < value	35.9	29.3	26.7	21.8	19.7	16.1	12.6	9.3	6.9	ug/m3
							0.013	0.009	0.007	mg/m3

Reporting Limit, 0.001 mg/m3