



**FIRST
SEALANT**

FR-5

FIRESIL ACRYLIC SEALANT

1st Firesil FR-5 is an intumescent fire resistance acrylic sealant. It is specially formulated to stop fire from spreading through wall partition, floor gaps, air-con and kitchen duct system, electrical cabling work, sealing pipes and other fire rated construction joints. It is also widely use in fire rated window frames and door as well.

Characteristics

- Up to 4 hours fire resistance.
- Joint movement up to approx 13%.
- Can use horizontal and vertical joint up to 25 mm wide.
- Fast cure, tack free in 60 minute and paintable.
- Halogen free, zero flame/smoke.
- No slump.
- Excellent adhesion to most building substrate.
- Low VOC and mildew resistance.
- UV resistant.

Applications

- Joints in fire retardant related constructions where a fire resistance seal is required.
- Excellent application on aircon and kitchen duct (non greasy environment).
- Electrical cabling and piping work.
- Parameter for fire rated doors and window frames.
- Concrete and brickwork.

Test Standard

1st Firesil FR-5 is independently assessed and registered to Warrington Fire/Exova Certifire scheme under certificate number CF5028.

Certifire certificate CF5028 confirms a wide field of application, based on 7 test reports supporting CF5028 as shown below.

1.WF150608 2.WF157676 3.WF191491 4.Sintef 103080 5.BRE 227814
6.Chilt RF06093 7.SRL C/07/SL/3907/1 8.B5476: Part 20:1987 TUV PSB class 1A

Shelf Life

Store unopened packages up to 24 month in a cool, dry storage place between +5°C to 35°C

Colours and Packaing

- White and Gray
- 300 ml per plastic cartridge
- 25 cartridge per box

Color



White



Grey

Certificate



WF150608
BS476:Part20:1987
TUV PSB class 1A
Leed V4, 4.1

Technical Data

Base : Fireproof Acrylic
Specify Gravity : 1.60-1.66 g/ml
Hardness : ± 35 Shore-A
Skin Time : approx 10 mins
Curing Time : 24 hours
Flow, Sag, Slump : Non
Temperature : -25°C to 85°C
Elongation at Break : 180%
Movement Capacity : ± 15%
VOC : 11.3 g/L

Packaging

300 ml/cartridge
25 cartridge/box



Test Report

No: 10509309(1)

Date: 09-Mar-2021

Page 1 of 2

Airflex Pte Ltd
Blk 1046 Eunos Ave 5
#01-137
Singapore 409746

The following sample(s) was/were submitted and identified by/on behalf of the client as:

Sample Name : 1st Firesil FR5 Intumescent Fire Acrylic Sealant

Sample Receiving Date : 01-Feb-2021
Testing Period : 19-Feb-2021 to 09-Mar-2021

Tests were conducted as requested and the following results were obtained :

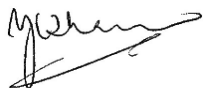
Test Items	Units	Method	LOQ/LOD	Results
Volatile Organic Compounds (VOC)	%	With reference to ASTM D2369	0.02	11.3

Note :

- 1) N.D. = Not detected for values less than LOQ
- 2) LOQ = Limit of Quantification, LOD = Limit of Detection

*** Tested by an SGS Lab (ref. DNS21200293)**

Signed for and on behalf of
SGS Testing & Control Services Singapore Pte Ltd




Y.C. Tham
Technical Manager, Multi-Lab

Test Location: 3 Toh Tuck Link, #01-02, Singapore 596228

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Sample photo:

Sample Description : White paste

SGS authenticate the photo on original report only



End of Report

Test Location: 3 Toh Tuck Link, #01-02, Singapore 596228

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TEST REPORT

VOC Content

20 June 2022

1 Sample Information

Sample name	14 FR-5 FIRESIL ACRYLIC SEALANT
Sample no.	392-2022-00244702
Stated production date	20/05/2022
Batch No.	20052022TI
Sample reception	30/05/2022

2 Brief Evaluation of the Results

Regulation or protocol	Conclusion	Version of regulation or protocol
SCAQMD Rule 1168	Pass	October 2017
LEED v4.1 (VOC Content)	Pass	February 2021

Full details based on the testing and direct comparison with limit values are available in the following pages
Regarding pass/fail decision rule please see appendix



Pernille Krintel
Analytical Service Manager



Janne Rothmann Norup
Analytical Service Manager

3 Applied Test Methods

3.1 General Test References

Regulation, protocol or standard	Scope	Version
SCAQMD Rule 1168	Adhesive and sealant applications	October 2017

3.2 Specific Laboratory Sampling and Analyses

Test	Regulation, protocol or standard	Version	Internal SOP	Limit of detection [g/L]	Uncertainty U _m %
Solids Content	ASTM D2369	2020	71 M 544830	1	10
VOC	ASTM D2369	2020	71 M 544830	1	10
Density *	Internal method	-	71 M 543130	-	10

3.3 Preparation of the Test Specimen

The sample was homogenised and applied directly onto the test dish.

4 Results

4.1 VOC content

	Remarks on the test results	Results	Unit
Density *	Tested by the lab	1.77	g/mL
Water Content *	Tested by subcontractor	9.7	% (w/w)
Exempt compounds *	Assumed to be 0	0	% (w/w)
Solids Content	Tested by the lab	87	% (w/w)
VOC content (less water)	Calculated based on the results above	80	g/L

4.2 Comparison with Limit Values of VOC Content (less Water)

Parameter	Results [g/L]	Product type	Regulation or protocol	VOC limit [g/L]
VOC content	80	All Other architectural sealants	SCAQMD Rule 1168	250

5 Appendices

5.1 How to Understand the Results

5.1.1 Acronyms Used in the Report

- < Means less than
- > Means bigger than
- * Not a part of our accreditation
- ⌘ Please see section regarding uncertainty in the Appendices
- 1 Analysed by another Eurofins laboratory

5.2 Description of VOC Content Test

5.2.1 Testing of VOC

Volatile content of the sample was determined gravimetrically by heating to 110 °C in 60 minutes. Multicomponent products are mixed according to the manufacturer's instructions and allowed to cure before heating.

The result is the average of two replicates. The result was calculated as:

$$VOC = \frac{([g \text{ All Volatiles}] - [g \text{ Water}] - [g \text{ Exempt Compounds}])}{([liter \text{ Material}] - [liter \text{ Water}] - [liter \text{ Exempt Compounds}])}$$

5.2.2 Testing of Density

The density was calculated using gravimetric and volumetric determination. The result is the average of three determinations.

5.3 Uncertainty of the Test Method

Um(%): The expanded uncertainty Um is equal to 2 x RSD%.

5.4 Decision Rules

Eurofins Product Testing A/S, declare statement of conformity based on the “Binary Statement for Simple Acceptance Rule” described in ILAC’s “Guidelines on decision Rules and Statements of Conformity” ILAC-G8:09/2019.

This means that results above the detection limit are always reported with two significant digits. Results are evaluated with the same number of significant digits as the corresponding limit values, and conformity is based on results being less than or equal to limit values.

For limit values with more than two significant digits, the third digit will be used to confirm whether a result is below or equal to the limit value. It will always be indicated in the evaluation table if this expanded evaluation is performed.

For further information please visit www.eurofins.dk/product-testing/om-os/beslutningsregler/

5.5 Version History

Report date	Report number	Modification
20/06/2022	392-2022-00244702_XG_EN	Current version

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VOC EMISSION TEST REPORT

CDPH

1 July 2022

1 Sample Information

Sample name	1st FR-5 Firesil Acrylic Sealant
Batch no.	20052022 T1
Stated production date	20/05/2022
Product type	Joint sealant
Sample reception	30/05/2022

2 Brief Evaluation of the Results

Regulation or protocol	Conclusion	Version of regulation or protocol
CDPH	Pass	CDPH/EHLB/Standard Method V1.2. (January 2017)

Full details based on the testing and direct comparison with limit values are available in the following pages
Regarding pass/fail decision rule please see appendix



Liva Kjær Hansen
Analytical Service Manager



Janne Rothmann Norup
Analytical Service Manager

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3 Applied Test Methods

3.1 General Test References

Regulation, protocol or standard	Version	Reporting limit VOC [$\mu\text{g}/\text{m}^3$]	Calculation of TVOC	Combined uncertainty ^a [RSD(%)]
EN 16516	2017 + A1:2020	5	Toluene equivalents	22%
ISO 16000 -3 -6 -9 -11	2006-2021 depending on part	2	Toluene equivalents	22%
ASTM D5116-10	2010	-	-	-
CDPH	CDPH/EHLB/Standard Method V1.2. (January 2017)	2	Toluene equivalents	22%

3.2 Specific Laboratory Sampling and Analyses

Procedure	External Method	Internal SOP	Quantification limit / sampling volume	Analytical principle	Uncertainty ^a [RSD(%)]
Sample preparation	ISO 16000-11:2006, EN 16516:2017+A1:2020, CDPH:2017	71M549810	-	-	-
Emission chamber testing	ISO 16000-9:2006, EN 16516:2017+A1:2020	71M549811	-	Chamber and air control	-
Sampling of VOC	ISO 16000-6:2021, EN 16516:2017+A1:2020	71M549812	5 L	Tenax TA	-
Analysis of VOC	ISO 16000-6:2021, EN 16516:2017+A1:2020	71M542808B	1 $\mu\text{g}/\text{m}^3$	ATD-GC/MS	10%
Sampling of aldehydes	ISO 16000-3:2011, EN 16516:2017+A1:2020	71M549812	35 L	DNPH	-
Analysis of aldehydes	ISO 16000-3:2011, EN 16516:2017+A1:2020	71M548400	3-6 $\mu\text{g}/\text{m}^3$	HPLC-UV	10%
Sampling on Charcoal tubes	ISO 16200-1:2001	71M549812	60 L	Charcoal	-
Analysis of Charcoal tubes *	ISO-16200-1:2001	71M546081	20 $\mu\text{g}/\text{m}^3$	Headspace-GC/MS	10%

4 Test Parameters, Sample Preparation and Deviations

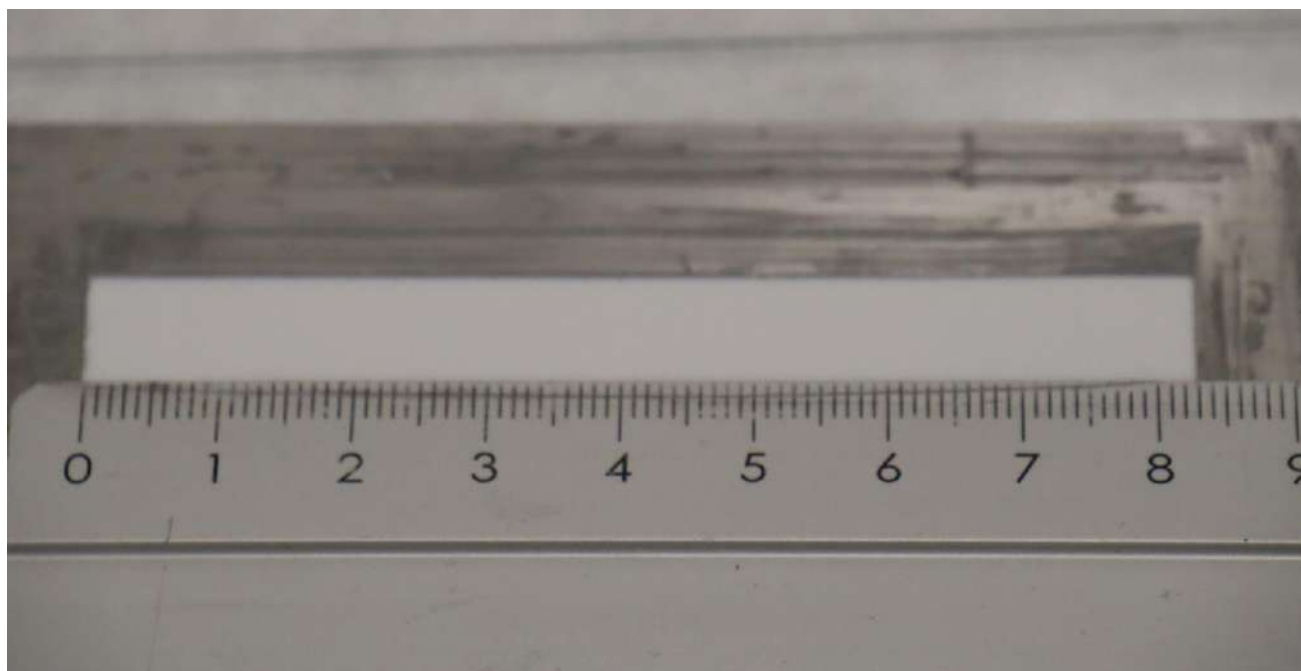
4.1 VOC Emission Chamber Test Parameters

Parameter	Value	Parameter	Value
Chamber volume, V[L]	119	Preconditioning period	-
Air Change rate, n[h ⁻¹]	1.0	Chamber test period	09/06/2022 - 23/06/2022
Area specific ventilation rate, q [m/h or m ³ /m ² /h]	143	Analytical test period	09/06/2022 - 29/06/2022
Relative humidity of supply air, RH [%]	50 ± 3	Loading factor [m ² /m ³]	0.007
Temperature of supply air, T [°C]	23 ± 1	Test scenario	Very small area

4.2 Preparation of the Test Specimen

The sample was applied onto a glass plate and drawn off over a model giving a 3 mm thick and uniform layer with a broadness of 10 mm.

4.3 Picture of Sample



4.4 Deviations from Referenced Protocols and Regulations

The loading factor was less than the lowest factor of 0.3 m²/m³ that CDPH method specifies for testing; CDPH method does not specify a clear loading factor in any model room. Instead, the loading factor as specified in EN 16516 was applied both during testing and for calculation of the air concentration in office and classroom.

5 Results

5.1 VOC Emission Test Results after 11 Days

	CAS No.	Specific Conc. [µg/m³]	Specific SER [µg/(m²·h)]	Toluene eq. [µg/m³]	Toluene SER [µg/(m²·h)]
TVOC (C5-C17)tol. eq.				33	4700
Aldehydes					
Formaldehyde	50-00-0	< 3	< 500		
Acetaldehyde	75-07-0	< 3	< 500		

5.2 VOC Emission Test Results after 12 Days

	CAS No.	Specific Conc. [µg/m³]	Specific SER [µg/(m²·h)]	Toluene eq. [µg/m³]	Toluene SER [µg/(m²·h)]
TVOC (C5-C17)tol. eq.				29	4100
Aldehydes					
Formaldehyde	50-00-0	< 3	< 500		
Acetaldehyde	75-07-0	< 3	< 500		

5.3 VOC Emission Test Results after 14 Days

	CAS No.	Retention time [min]	ID-Cat	SER [µg/(m²·h)]	Classroom Conc. [µg/m³]	Office Conc. [µg/m³]	½ CREL [µg/m³]
VOC (C5-C17)							
1-Butanol	71-36-3	2.46	1	940	8.0	1.0	
1,2-Propandiol (Propylene glycol) *	57-55-6	3.42	1	12000	100	12	
Texanol *	25265-77-4	13.05	1	1100	9.4	1.1	
TVOC (C5-C17)tol. eq.				3500	30	3.6	
Aldehydes							
Formaldehyde	50-00-0		1	< 500	< 5	< 1	9
Acetaldehyde	75-07-0		1	< 500	< 5	< 1	70

6 Summary and Evaluation of the Results

6.1 Comparison with Limit Values of CDPH

Parameter	Test after 14 days			
	CAS No. Single compounds	Concentration in Classroom [µg/m³]	Concentration in Office Room [µg/m³]	½ CREL [µg/m³]
TVOC (C5-C17)tol. eq.	-	30	3.6	-
Single compounds (with defined CREL values)				
None determined	-	-	-	-
Formaldehyde	50-00-0	< 5	< 1	≤ 9
Acetaldehyde	75-07-0	< 5	< 1	≤ 70

6.1.1 Conversion of Emission Rates to CDPH Reference Room Concentrations

The CDPH method requires calculation of the measured emission rates into concentrations in given reference rooms. The equation and parameters figured below have been applied to calculate the concentrations in an office room or a classroom as required in the CDPH. The area used in the calculation varies depending on the expected usage of the product and therefore several entries can be found. Small and Very Small areas are not provided within the CDPH but are adapted from definitions given in EN 16516 and ISO 16000-9.

$$C_{\text{Calculated}} = \frac{SER_A \cdot A}{n \cdot V}$$

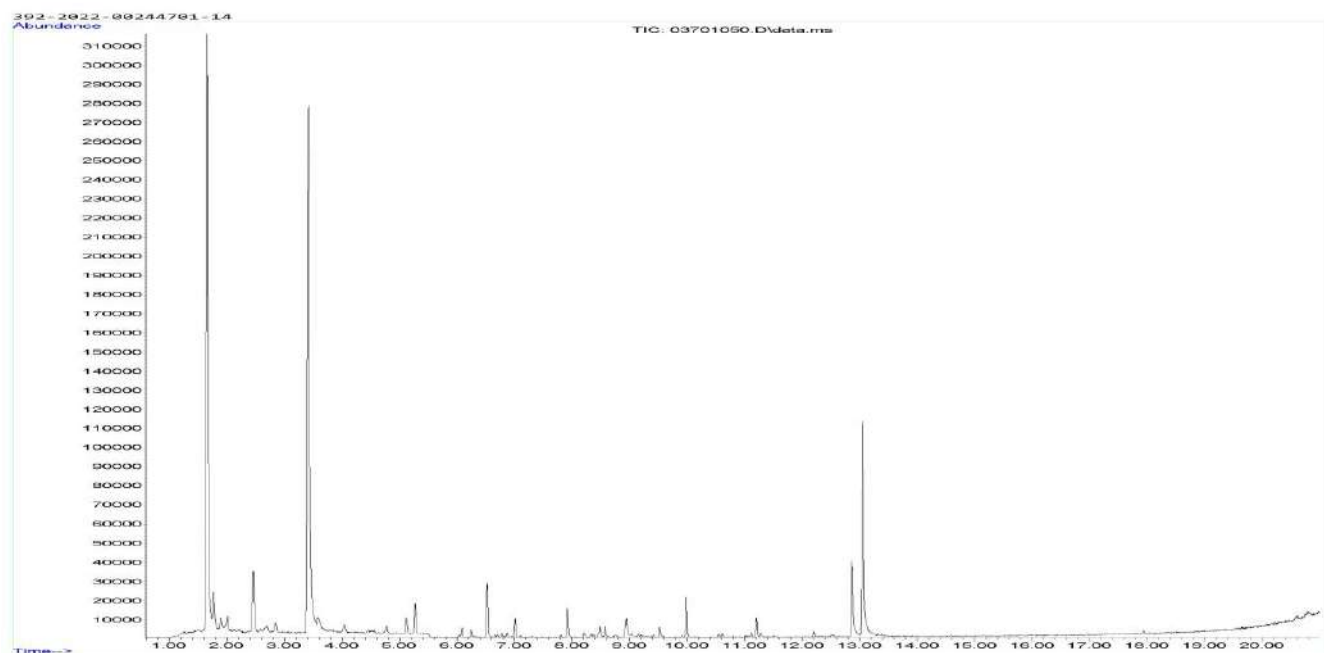
		Classroom parameters	Office Room parameters
SER	Area specific emission rate, µg/(m²h)	As tested	As tested
n	Air change, h ⁻¹	0.82	0.68
V	Volume of reference room, m³	231	30.6
A	Floor area, m²	89.2	11.1
	Walls area, m²	94.3	33.4
	Ceiling and Wall, m²	183.8	N/A
	Door and Millwork, m²	1.89	1.89
	Desk or Chair, units	27	1
	Very Small areas, m²	1.62	0.021
	Small areas, m²	11.55	1.53

The results are only valid for the tested sample(s).

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7 Appendices



7.1 Chromatogram of VOC Emissions after 14 Days



7.2 Chain of Custody



Chain of Custody

Name of the product: 1ST FRESH FR-5		Type of product: INTERMITTENT FIRE ACRYLIC SEALANT	
Model / Program / Series: FR-5		Batch N°: 20052022T1	
Article N°: Misc.		Date of batch production: 20/05/2022	
Name of the manufacturer at the place of sampling (address / stamp): S.S. SOLUTION CO., LTD		Manufacturer (if deviating from company's name at the place of sampling): S.S. SOLUTION CO., LTD	
Sample collector (Name, company, telephone): PETER ANG, S.S. SOLUTION CO., LTD 466 99 389 1689		Signature of sample collector: 	
Sample is taken from: <input type="checkbox"/> the ongoing production <input checked="" type="checkbox"/> stocks		Date of sampling: 20/05/2022	
Number of Samples 03 CARTRIDGES		Time: 13:00 HRS	
Where had the product been stored prior to sampling? <input type="checkbox"/> Production <input checked="" type="checkbox"/> Store <input type="checkbox"/> Miscellaneous		How had the product been stored prior to sampling? <input type="checkbox"/> open <input type="checkbox"/> in the stack <input checked="" type="checkbox"/> wrapped up	
Place of storage:		Packing material:	
Further links in chain of custody (Name, function, company, telephone):		Signature:	
Further links in chain of custody (Name, function, company, telephone):		Signature:	
Sample sender (Name, company, telephone): PETER ANG, S.S. SOLUTION CO., LTD 466 99 389 1689		Signature of sample sender: 	
Date and time of sending: 27/5/2022		Shipment details/Carrier: DHL 2524430160	
Where had the product sample been stored prior to sending? <input type="checkbox"/> Production <input checked="" type="checkbox"/> Store <input type="checkbox"/> Miscellaneous		How had the product sample been stored prior to sending? <input type="checkbox"/> open <input type="checkbox"/> in the stack <input checked="" type="checkbox"/> wrapped up	
Place of storage:		Packing material:	
Laboratory receiving details (date, condition of package and sample, assigned lab no.):			
Receptionist, Eurofins Product Testing A/S:		Signature of receptionist:	

7.3 How to Understand the Results

7.3.1 Acronyms Used in the Report

<	Means less than
>	Means bigger than
*	Not a part of our accreditation
±	Please see section regarding uncertainty in the Appendices
§	Deviation from method. Please see deviation section
a	The method is not optimal for very volatile compounds. For these substances smaller results and a higher measurement uncertainty cannot be ruled out
b	The component originates from the substrate and is thus removed
c	The results have been corrected by the emission from the substrate
d	Very polar organic compounds are not suitable for reliable quantification using Tenax TA adsorbent and HP-5ms GC column. A high degree of uncertainty must be expected
e	The component may be overestimated due to contribution from the system
SER	Specific Emission Rate

7.3.2 Explanation of ID Category

Categories of Identity:

- 1: Identified by comparison with a mass spectrum obtained from library and supported by other information and quantified through specific calibration.
- 2: Identified by comparison with a mass spectrum obtained from library and supported by other information. Quantified as toluene equivalent.
- 3: Identified with a lower match by comparison with a mass spectrum obtained from a library. Quantified as toluene equivalent.
- 4: Not identified, quantified as toluene equivalent.

7.4 Description of VOC Emission Test

7.4.1 Test Chamber

The test chamber is made of stainless steel. A multi-step air clean-up is performed before loading the chamber, and a blank check of the empty chamber is performed.

The chamber operation parameters are as described in the test method section. (EN 16516, ISO 16000-9, internal method no.: 71M549811).

7.4.2 Expression of the Test Results

All test results are calculated as specific emission rate, and as extrapolated air concentration in the European Reference Room (EN 16516, AgBB, EMICODE, M1 and Indoor Air Comfort).

7.4.3 Testing of Carcinogenic VOCs

The emission of carcinogens (EU Categories C1A and C1B, as per European law) is tested by drawing sample air from the test chamber outlet through Tenax TA tubes after the specified duration of storage in the ventilated test chamber. Analysis is performed by ATD-GC/MS (automated thermal desorption coupled with gas chromatography and mass spectroscopy using 30 m HP-5 (slightly polar) column with 0.25 mm ID and 0.25 μ m film, Agilent) (EN 16516, ISO 16000-6, internal methods no.: 71M549812 / 71M542808B).

All identified carcinogenic VOCs are listed; if a carcinogenic VOC is not listed then it has not been detected. Quantification is performed using the TIC signal and authentic response factors, or the relative response factors relative to toluene for the individual compounds.

This test only covers substances that can be adsorbed on Tenax TA and can be thermally desorbed. If other emissions occur, then these substances cannot be detected (or with limited reliability only).

7.4.4 Testing of VOC

The emissions of volatile organic compounds are tested by drawing sample air from the test chamber outlet through Tenax TA tubes after the specified duration of storage in the ventilated test chamber. Analysis is performed by ATD-GC/MS using HP-5 column (30 m, 0.25mm ID, 0.25 μ m film).

This test only covers substances which can be adsorbed on Tenax TA and can be thermally desorbed. If emissions of substances outside these specifications occur then these substances cannot be detected (or with limited reliability only).

7.4.5 Testing of Aldehydes

The presence of aldehydes is tested by drawing air samples from the test chamber outlet through DNPH-coated silicagel tubes after the specified duration of storage in the ventilated test chamber. Analysis is performed by solvent desorption and subsequently by HPLC and UV-/diode array detection.

The absence of formaldehyde and other aldehydes is stated if UV detector response at the specific wavelength is lacking at the specific retention time in the chromatogram. Otherwise it is checked whether the reporting limit is exceeded. In this case the identity is finally checked by comparing full scan sample UV spectra with full scan standard UV spectra.

7.4.6 Testing of Charcoal tubes

The presence of low boiling VOC is tested by drawing air samples from the test chamber outlet through charcoal tubes after the specified duration of storage in the ventilated test chamber. Analysis is performed by solvent desorption and subsequently by HS-GC/MS using a stabilwax column. This test only covers substances which has a CREL value and are not possible to sample on Tenax tubes.

7.5 Quality Assurance

Before loading the test chamber, a blank check of the empty chamber is performed and compliance with background concentrations in accordance with EN 16516 / ISO 16000-9 is determined.

Air sampling at the chamber outlet and subsequent analysis is performed in duplicate. Relative humidity, temperature and air change rate in the chambers is logged every 5 minutes and checked daily. A double determination is performed on random samples at a regular interval and results are registered in a control chart to ensure the uncertainty and reproducibility of the method.

The stability of the analytical system is checked by a general function test of device and column, and by use of control charts for monitoring the response of individual substances prior to each analytical sequence.

7.6 Accreditation

The testing methods described above are accredited on line with EN ISO/IEC 17025 by DANAK (no. 522). This accreditation is valid worldwide due to mutual approvals of the national accreditation bodies (ILAC/IAF, see also www.eurofins.com/galten.aspx#accreditation).

Not all parameters are covered by this accreditation. The accreditation does not cover parameters marked with an asterisk (*), however analysis of these parameters is conducted at the same level of quality as for the accredited parameters.

7.7 Uncertainty of the Test Method

The relative standard deviation of the overall analysis is 22%. The expanded uncertainty U_m equals 2 x RSD. For further information please visit www.eurofins.dk/uncertainty.

7.8 Decision Rules

Eurofins Product Testing A/S, declare statement of conformity based on the "Binary Statement for Simple Acceptance Rule" described in ILAC's "Guidelines on decision Rules and Statements of Conformity" ILAC-G8:09/2019.

This means that results above the detection limit are always reported with two significant digits. Results are evaluated with the same number of significant digits as the corresponding limit values, and conformity is based on results being less than or equal to limit values.

For limit values with more than two significant digits, the third digit will be used to confirm whether a result is below or equal to the limit value. It will always be indicated in the evaluation table if this expanded evaluation is performed.

For further information please visit www.eurofins.dk/product-testing/om-os/beslutningsregler/

7.9 Version History

Report date	Report number	Modification
01/07/2022	392-2022-00244701_H_EN	Current version

Airflex Pte Ltd

Blk 1046 Eunos Ave 5 #01-137 Singapore 409746

Tel : 68440368 / 63468226

GST No / Reg No : 200812402W

Project Reference For 1st Firesil FR Sealant

Year

- Jurong Hospital
- Biopolis Sport
- Sengkang Green Primary School
- Farrer Park
- Serangoon Ave 5
- Changi Terminal 2 & 3
- National Heart Centre
- Singapore Sports Hub (M&E)
- Singapore Sport Hub (Roofing)
- Congent Logistic at Kranji
- Lead Johnson
- Suntec – New Extension
- Media Corp at Boipolis
- M Hotel
- Yishun Stat Chip
- Changi Village Hotel
- Alexandra Hospital
- Marina Sq – New Extension
- I12 Shopping centre
- Ng Teng Fong Hospital
- OCH Hospital
- Bedok Interchange
- Changi Hospital
- Sengkang Hospital
- MRT at Maxwell & Mount pleasant
- MRT at Marine boulevard & Outram park
- Jewel at Changi Airport
- Royal Square
- Golbal Indian School
- NTUC Tuas warehouse
- Labcorp
- 1 Tuas Basin Link
- Tuas Project

● Singapore Polytechnic	2020
● Actris NCC Project	2021
● Gombak	2022-2023
● SIT	2022
● SIT at Punggol Coast Rd	2022
● SJC	2022
● C831D Kim Chuan Depot Extension	2022-2023
● Mandai West Camp	2022-2023
● CWW project	2022-2023
● Mandai	2023
● AMAT at Tampines (TIC)	2023
● PDD-SED	2023