

# **ALLFASTNERS**TEST REPORT

### **SCOPE OF WORK**

EPA Method 24 (Aug. 2017) on AF607 Duct Sealant

### **REPORT NUMBER**

105234380GRR-001a

### **ISSUE DATE**

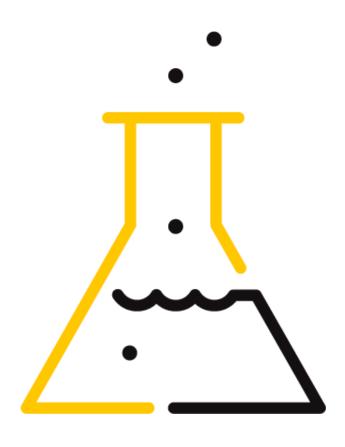
04-November-2022

### **PAGES**

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### **DOCUMENT CONTROL NUMBER**

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P.O.: N/A

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# **SECTION 1**

# **CLIENT INFORMATION**

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Date: 04-November-2022 P.O.: N/A

# **SECTION 2**

# **SUMMARY AND CONCLUSION**

Date Received: 18-June-2020

Dates Tested: 23-June-2020 to 26-June-2020

**DESCRIPTION OF SAMPLES** 

Part Name: AF607 Duct Sealant

Part Number: 12DS10

Product Category: Water based High Velocity Duct Sealant

Material Submitted: One (1) Container of Water based HVAC duct sealant

Shipping Condition: Good Condition

WORK REQUESTED/APPLICABLE DOCUMENTS

VOC Content: EPA Method 24 (Aug. 2017)

LEED V4.1 BD+C (APR. 2020); SCAQMD Rule 1168 (Oct. 2017)

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Intertek Quote: Qu-01296275-4

### **TEST RESULTS**

TEST	DISPOSITION
EPA METHOD 24 (AUG. 2017)	RESULTS REPORTED
LEED V4.1 BD+C (APR. 2020)	CONFORMING

### **SAMPLE DISPOSITION**

At the completion of testing, samples were disposed of in a routine manner.

Date: 04-November-2022 P.O.: N/A

# **SECTION 3**

# **VOC CONTENT**

Date Received: 18-June-2020

Dates Tested: 23-June-2020 to 26-June-2020

**DESCRIPTION OF SAMPLES:** 

Part Name: AF607 Duct Sealant

Part Number: 12DS10

Product Category: Water based High Velocity Duct Sealant

Material Submitted: One (1) Container of Water based HVAC duct sealant

Shipping Condition: Good Condition

**TEST PROCEDURE:** 

Test Method: EPA Method 24 (Aug. 2017) - Determination Of Volatile Matter

Content, Water Content, Density, Volume Solids, And Weight

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**Solids Of Surface Coatings** 

ASTM D2369 (June 2015) – Standard Test Method for Volatile

**Content of Coatings** 

ASTM D1475 (Nov. 2013) – Standard Test Method for Density

of Liquid Coatings, Inks, and Related Products

ASTM D3792 (Jun. 2009) – Water Content of Coatings by

Direct Injection Into a Gas Chromatograph

SCAQMD Rule 1168 (Oct. 2017) Adhesive and Sealant

**Applications** 

Number of Samples: One (1) Per Material

### **ACCEPTANCE CRITERIA:**

Referencing: SCAQMD Rule 1168

COATING CATEGORY	CURRENT LIMIT (Grams of VOC per liter of Regulated Product, less water and less exempt compounds)	EFFECTIVE DATE
All Other Sealants	250	2017

### **TEST NOTES OR DEVIATIONS:**

Testing performed without deviation unless noted below.

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### **RESULTS:**

Equation 1: VOC content per EPA 24

$$\textit{VOC}, \frac{g}{L}(of\ coating) = (100 - N - W - Ex)(Dm)(10)$$

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Where:	N = Weight percent nonvolatiles
	W = Weight percent water
	Ex = Weight percent exempt compounds
	Dm = Density of the sample, g/mL

Table 1: VOC Content Results per EPA 24

TEST VARIABLE	TEST SPEC	VARABLE	RESULT	UNITS
Density	ASTM D1475	D <sub>m</sub>	1.297	g/mL
Water	ASTM D3792	W	34.29	%
Non-volatile compounds	ASTM D2369	N	61.49	%
Exempt VOCs	ASTM D6133	Ex	N/A	%
VOC Content	-	-	55	g/L

Equation 2: VOC content per LEED V4; SCAQMD Rule 1168

$$VOC, \frac{g}{L} \binom{of\ Regulated\ Product,}{Less\ Water\ and\ Less} = \frac{Ws - Ww - Wes}{Vm - Vw - Ves}$$

Where:	W <sub>S</sub> = Weight of volatile compounds, in grams
	W <sub>w</sub> = Weight of water, in grams
	W <sub>es</sub> = Weight of exempt compounds, in grams
	$V_m$ = Volume of materials, in liters
	V <sub>W</sub> = Volume of water, in liters
	V <sub>es</sub> = Volume of exempt compounds, in liters

**Table 2: VOC Content Results per SCAQMD Rule 1168** 

TEST VARIABLE	TEST SPEC	RESULT	UNITS
Density	ASTM D1475	1297	g/L
Water	ASTM D3792	34.29	%
Non-volatile compounds	ASTM D2369	61.49	%
Exempt VOCs	ASTM D6133	N/A	%

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Table 3: Calculation of Grams of VOC per litre of Regulated Product, Less water and less exempt compounds

TEST VAI	RIABLE	RESULT	UNITS	FINAL RESULT
Weight of volatile compounds	Ws	500	g	
Weight of water	Ww	445	g	
Weight of exempt compounds	Wes	-	g	99
Volume of material	Vm	1	L	
Volume of Water	Vw	0.445	L	
Volume of exempt compounds	Ves	-	L	

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# **SECTION 4**

# **FACILITIES AND EQUIPMENT:**

EQUIPMENT	
OVEN USED:	TFO-5 Cascade Tek Oven
BALANCE USED:	Sartorius CPA225D Semi-micro Balance
GC/TCD	
INSTRUMENTATION USED:	Agilent 7890B, G4513A
COLUMN USED:	Hayesep R 80/100 μM