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## VOC TEST REPORT

### VOC Content

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#### 1 Sample Information

Sample name	R-HAC-V
Batch no.	-
Production date	-
Product type	Sealants - Architectural
Sample reception	18/05/2017

#### 2 Brief Evaluation of the Results

Regulation or protocol	Conclusion	Version of regulation or protocol
LEED IEQ 4.1/4.2	PASS	SCAQMD Rule 1168

Full details based on the testing and direct comparison with limit values are available in the following pages



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Analytical Chemist

### 3 Applied Test Methods

#### 3.1 General Test References

Test	Regulation, protocol or standard	Version	Internal SOP	Limit of detection [g/L]	Uncertainty U <sub>m</sub>
Solids Content	ASTM D2369	2010	71 M 544830	1	10
VOC	ASTM D2369	2010	71 M 544830	1	10
Density	Internal method	-	71 M 543130	-	10

### 4 Results

#### 4.1 VOC Content

	Remarks on the test results	Results	Unit
Density	Tested by the lab	1.14	g/mL
Water Content	Supplied by the costumer	0	% (w/w)
Exempt compounds	Assumed to be 0	0	% (w/w)
Solids Content	Tested by the lab	93.9	% (w/w)
VOC content	Calculated based on the results above	70	g/L

#### 4.2 Comparison with Limit Values

Parameter	Results [g/L]	Product type	VOC limit [g/L]
<b>VOC content</b>	70	Sealants - Architectural	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

The relative standard deviation of the overall analysis is 10%. The expanded uncertainty  $U_m$  equals 2 x RSD. For further information please visit [www.eurofins.dk/uncertainty](http://www.eurofins.dk/uncertainty).