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VOC TEST REPORT

VOC Content

26 June 2017

1 Sample Information

Sample name	R-KEM-II
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



Morten Sielemann
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 Um _a
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	1.63	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	98.2	% (w/w)
VOC content	Calculated based on the results above	29	g/L

4.2 Comparison with Limit Values

Parameter	Results [g/L]	Product type	VOC limit [g/L]
VOC content	29	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.