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# VOC TEST REPORT
# VOC Content

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## 1 Sample Information

| | |
|---|---|
| Sample name | R-KER-II-W |
| Batch no. | - |
| Production date | - |
| Product type | Architectural Sealant |
| 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 Um¤ |
|---|---|---|---|---|---|
| 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 | 1.66 | 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 | 98.1 | % (w/w) |
| VOC content | Calculated based on the results above | 32 | g/L |

## 4.2 Comparison with Limit Values

| Parameter | Results [g/L] | Product type | VOC limit [g/L] |
|---|---|---|---|
| **VOC content** | 32 | 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:

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

### 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 Um equals 2 x RSD. For further information please visit www.eurofins.dk/uncertainty.