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Date
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Our ref.
392-2015-00292201

Test Report – ISO 11890-2 / ASTM D6886

Sample material

Sample identification	Sikagard 403W
Product type	Water based paint
Batch No.	3001508234
Production date	08/06/15
Product data	Density: 1.340 g/ml (Information from client)
Date received	24/09/2015
Analytical period	24/09/2015 – 06/10/2015

Methods applied

Method	Principle	Parameter	Reporting limit	Uncertainty (U_m)
EU Directive 42/2004/EC ISO 11890-2 (2013) ASTM D6886-12	GC/MS and GC/FID	Content of volatile and semi-volatile organic compounds (VOC/SVOC) in paints and varnishes	1 g/l	20 %

Volatile Organic Compounds (VOC) include all organic compounds with an initial boiling point less than or equal to 250°C measured at standard pressure of 101,3 kPa.

Semi-Volatile Organic compounds (SVOC) include any organic compounds with an initial boiling point greater than 250°C and less than 370 °C measured at standard pressure of 101,3 kPa.

VOC content and SVOC content are determined in conformity with ISO 11890-2 standard, CEPE Guidance document referenced CEPE/EC/2015-04-13, and the Commission Decision 2014/312/EU of 28 May 2014 establishing the ecological criteria for the award of the EU Ecolabel for indoor and outdoor paints and varnishes by considering its most recent amendments and its most recent User Manual.

Analyses are performed with a slightly polar gas chromatographic column (HP-5) system, using *n*-tetradecane (C14H30) and *n*-docosane (C22H46) as marker compounds for the SVOC determination.

Mass spectrometric detector is used for VOCs and SVOCs' identification and flame ionization detector is used for quantification.

Identified SVOCs and VOCs are quantified with their authentic response factors, or with their relative response factors using 1,2-diethoxyethane as internal standard.

Remaining unknown SVOC and VOC peaks are quantified in diethyl adipate equivalents.

*)Not accredited

The expanded uncertainty U_m equals 2 x RSD%

Analytical results

392-2015-00292201	CAS	Content, g/l
Total VOC	-	**< 1**
Unidentified *	-	1.6
Total SVOC	-	**1.6**

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Analytical Chemist

*)Not accredited

The expanded uncertainty U_m equals 2 x RSD%