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Date
19 March 2014

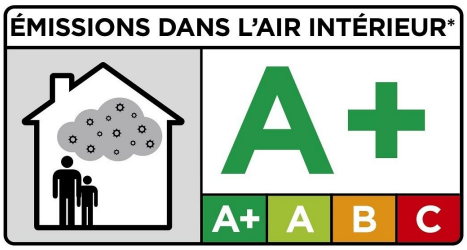
VOC Emissions Test report

1. Sample Information

Sample identification	Marmorkitt 1000 Transparent
Product type	Sealant
Batch no.	0141033
Production date	KW 03 2013
Date when sample was received	27/08/2013
Testing (start - end)	29/08/2013 - 26/09/2013

2. Resulting VOC Emissions Class Label

This recommendation is based on French regulation of March 23, 2011 (décret DEVL1101903D) and of April 19, 2011 (arrêté DEVL1104875A). For details please see www.eurofins.com/france-voc



*Information sur le niveau d'émission de substances volatiles dans l'air intérieur, présentant un risque de toxicité par inhalation, sur une échelle de classe allant de A+ (très faibles émissions) à C (fortes émissions).

The product was assigned a VOC emission class without taking into account the measurement uncertainty associated with the result. As specified in French Decree no. 2011-321 of March 23, 2011, correct assignment of the VOC emission class is the sole responsibility of the party responsible for distribution of the product in the French market.

3. Conclusion on CMR emissions

The tested product fulfills the requirements of the French regulation DEVP0908633A of 30 April 2009 and DEVP0910046A of 28 May 2009. For details please see www.eurofins.com/france-voc.

4. Test Method

Method	Principle	Parameter	Quantification limit	Uncertainty
ISO 16000 parts -3, -6, -9, -11 Internal method numbers: 9810, 9811, 9812, 2808, 8400	GC/MS HPLC/UV	VOC Volatile alde-hydes	2 µg/m³ 3 µg/m³	22% (RSD)
ISO 16000 parts -3, -6, -9, -11 Internal method numbers: 9810, 9811, 9812, 2808, 8400, 2616	HPLC/UV	4CMR	<1 µg/m³	Um = 2 x RSD=45 %

Test chamber parameter					
Chamber volume, l	119	Temperature, °C	23±1	Relative humidity, %	50±5
Air change rate, 1/h	0.5	Loading ratio, m²/m³	0.007		
Test condition: Sample stayed in test chamber during the whole 28 days testing period.					
Sample preparation					
Thickness, mm	3				

5. Results

	Concentration after 28 days µg/m³	C	B	A	A+
TVOC	11	>2000	<2000	<1500	<1000
Formaldehyde	<3	>120	<120	<60	<10
Acetaldehyde	<3	>400	<400	<300	<200
Toluene	<2	>600	<600	<450	<300
Tetrachloroethylene	<2	>500	<500	<350	<250
Ethylbenzene	<2	>1500	<1500	<1000	<750
Xylene	<2	>400	<400	<300	<200
Styrene	11	>500	<500	<350	<250
2-Butoxyethanol	<2	>2000	<2000	<1500	<1000
1,2,4-Trimethylbenzene	<2	>2000	<2000	<1500	<1000
1,4-Dichlorobenzene	<2	>120	<120	<90	<60
CMR compounds		Maximum allowed air concentration			
Benzene	<1	<1			
Trichloroethylene	<1	<1			
Dibutylphthalate (DBP) *	<1	<1			
Diethylhex-ylphthalate (DEHP) *	<1	<1			

< Means less than
> Means higher than
* Not a part of our accreditation (EN ISO/IEC 17025:2005) by DANAK (no. 522))

Thomas Neuhaus
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