

VOC Emissions Test report

Den Braven France

ZI Le Meux
60881 Le Meux
France

Eurofins Product Testing A/S
Smedeskovvej 38
8464 Galten
Denmark

voc@eurofins.com
www.eurofins.com/voc-testing

Date
23/01/2012

Your ref.

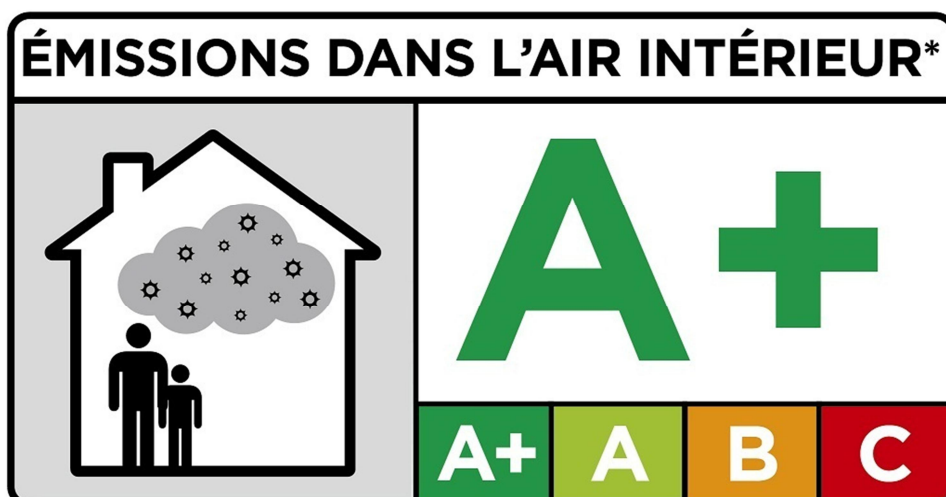
-

1. Sample Information

Sample identification	COLLE PU59
Product type	Sealant
Batch no.	1662360
Production date	23/08/2011
Date when sample was received	24/10/2011
Testing (start - end)	19/12/2011 - 16/01/2012

2. Resulting VOC Emissions Class Label

This recommendation is based on French regulation as published on 25 March 2011 (décret DEVL1101903D) and on 13 May 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).*

3. Test Method

Method	Principle	Parameter	Detection limit	Uncertainty	
ISO 16000 parts -3, -6, -9, -11 Internal method numbers: 9810, 9811, 9812, 2808, 8400	GC/MS HPLC/UV	VOC Volatile aldehydes	5 µg/m ³ 5 µg/m ³	22% (RSD) Um = 2 x RSD = 45 %	
Test chamber parameter					
Chamber volume (L):	119	Temperature (C):	23	Relative humidity (%):	50
Air change rate (per hour):	0.5	Loading ratio(m ² /m ³)	0.007		
Test condition: Sample stayed in test chamber during the whole 28 days testing period.					
Sample preparation					
Thickness in mm:	3				

4. Results

	Concentration after 28 days $\mu\text{g}/\text{m}^3$	C	B	A	A+
TVOC	510	>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	<2	>500	<500	<350	<250
2-Butoxyethanol	<2	>2000	<2000	<1500	<1000
Trimethylbenzene	2.1	>2000	<2000	<1500	<1000
1,4-Dichlorobenzene	<2	>120	<120	<90	<60

< Means less than
> Means higher than



Thomas Neuhaus
Head of product emission test centre



Pascal Ge
Analytical Service Manager