

# VOC Emissions Test report

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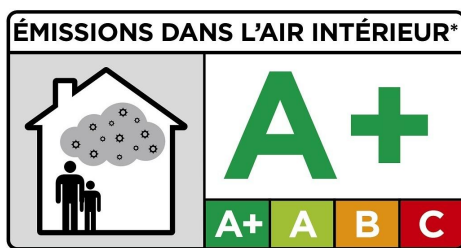
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04/06/2012  
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## 1. Sample Information

Sample identification	Armuralia P50
Product type	Marble Stucco Paste
Batch no.	A100411 - 04
Production date	06/11
Date when sample was received	21/03/2012
Testing (start - end)	17/04/2012 - 15/05/2012

## 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](http://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	2 µg/m <sup>3</sup> 3 µg/m <sup>3</sup>	22% (RSD) Um = 2 x RSD = 45 %	
<b>Test chamber parameter</b>					
Chamber volume (L):	119	Temperature (C):	23	Relative humidity (%):	50
Air change rate (per hour):	0.5	Loading ratio(m <sup>2</sup> /m <sup>3</sup> )	1		
<b>Test condition: Sample stayed in test chamber during the whole 28 days testing period.</b>					
<b>Sample preparation</b>					
1600 g/m <sup>2</sup> was applied on a glass plate and transferred directly into the chamber					

## 4. Results

	Concentration after 28 days $\mu\text{g}/\text{m}^3$	C	B	A	A+
TVOC	630	>2000	<2000	<1500	<1000
Formaldehyde	3.6	>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	>2000	<2000	<1500	<1000
1,4-Dichlorobenzene	<2	>120	<120	<90	<60

< Means less than

> Means higher than



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