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VOC EMISSION TEST REPORT
Indoor Air Comfort GOLD®

11 April 2019

1 Sample Information

Sample name	Promastop-CC liquid
Batch no.	03419B
Production date	17/01/2019
Product type	Coating
Sample reception	04/03/2019

2 Brief Evaluation of the Results

Regulation or protocol	Conclusion	Version of regulation or protocol
French VOC Regulation	A+	Regulation of March and May 2011 (DEVL1101903D and DEVL1104875A)
French CMR components	Pass	Regulation of April and May 2009 (DEVP0908633A and DEVP0910046A)
AgBB/ABG	Pass	Anforderungen an bauliche Anlagen bezüglich des Gesundheitsschutzes (ABG), Entwurf 31.08.2017
Belgian Regulation	Pass	Royal decree of May 2015 (C-2014/24239)
Indoor Air Comfort®	Pass	Indoor Air Comfort 6.0 of February 2017
Indoor Air Comfort GOLD®	Pass	Indoor Air Comfort GOLD 6.0 of February 2017

Full details based on the testing and direct comparison with limit values are available in the following pages

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6 Summary and Evaluation of the Results

6.1 Comparison with Limit Values of the French VOC Regulation

	CAS No.	Conc. 28 days µg/m³	C µg/m³	B µg/m³	A µg/m³	A+ µg/m³
TVOC	-	35	>2000	<2000	<1500	<1000
Formaldehyde	50-00-0	< 3	>120	<120	<60	<10
Acetaldehyde	75-07-0	< 3	>400	<400	<300	<200
Toluene	108-88-3	< 2	>600	<600	<450	<300
Tetrachloroethylene	127-18-4	< 2	>500	<500	<350	<250
Ethylbenzene	100-41-4	< 2	>1500	<1500	<1000	<750
Xylene	1330-20-7	< 2	>400	<400	<300	<200
Styrene	100-42-5	< 2	>500	<500	<350	<250
2-Butoxyethanol	111-76-2	< 2	>2000	<2000	<1500	<1000
1,2,4-Trimethylbenzene	95-63-6	< 2	>2000	<2000	<1500	<1000
1,4-Dichlorobenzene	106-46-7	< 2	>120	<120	<90	<60

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.

6.2 Comparison with Limit Values of the CMR Components

CMR substances	CAS No.	Conc. 28 days µg/m³	Max. allowed air concentration µg/m³
Benzene	71-43-2	< 1	< 1
Trichloroethylene	79-01-6	< 1	< 1
Dibutylphthalate (DBP)*	84-74-2	< 1	< 1
Diethylhexylphthalate (DEHP)*	117-81-7	< 1	< 1

6.3 Comparison with VOC Limit Values of AgBB/ABG

Parameter	Test after 3 days		Test after 28 days	
	Concentration mg/m³	Limit Value mg/m³	Concentration mg/m³	Limit Value mg/m³
TVOC	0.61	≤ 10	0.044	≤ 1.0
TSVOC	0.039	-	0.024	≤ 0.1
R-value (dimensionless)	1.1	-	0.19	≤ 1
Sum of VOC without NIK	0.28	-	< 0.005	≤ 0.1
Formaldehyde	-	-	< 0.003	≤ 0.1
Total carcinogens	< 0.001	≤ 0.01	< 0.001	≤ 0.001

Compliance with the limits alone does not replace an approval or voluntary documentation by a Technical Assessment Body according to the Construction Product Regulation. This requires an application and approval. See www.eurofins.com/dibt-procedures.

6.4 Comparison with Limit Values of the Belgian Regulation

Parameter	Test after 28 days	
	Concentration µg/m³	Limit Value µg/m³
TVOC (EN 16516)	24	≤ 1000
TSVOC	24	≤ 100
R-value (dimensionless)	0.19	≤ 1
Total carcinogens	< 1	≤ 1
Toluene	< 5	≤ 300
Formaldehyde	< 3	≤ 100
Acetaldehyde	< 3	≤ 200

6.5 Comparison with Limit Values of Indoor Air Comfort®

	Test after 3 days		Test after 28 days	
	Concentration µg/m³	Limit Value µg/m³	Concentration µg/m³	Limit Value µg/m³
TVOC (EN 16516)	410	≤ 10000	24	≤ 1000
TSVOC	47	-	24	≤ 100
R_D-value (NIK) (dimensionless)	1.1	-	0.19	≤ 1
R_B-value (LCI) (dimensionless)	1.1	-	0.19	≤ 1
Sum of VOC without NIK/LCI	280	-	< 5	≤ 100
Total carcinogens	< 1	≤ 10	-	-
Any individual carcinogens	-	-	< 1	≤ 1
CMR substances	-	-	< 1	≤ 1
Formaldehyde	< 3	-	< 3	≤ 60
Acetaldehyde	< 3	-	< 3	≤ 200
French A+/A	-	-	Complies	

Compliance with the limits alone does not entitle to use the Indoor Air Comfort label. This requires an application, site inspection, and approval. See www.eurofins.com/iac-procedures.

6.6 Comparison with Limit Values of Indoor Air Comfort Gold®

	Test after 3 days		Test after 28 days	
	Concentration µg/m³	Limit Value µg/m³	Concentration µg/m³	Limit Value µg/m³
TVOC (EN 16516)	410	≤ 1000	24	≤ 100
TSVOC	47	-	24	≤ 50
R_D-value (NIK) (dimensionless)	1.1	-	0.19	≤ 1
R_B-value (LCI) (dimensionless)	1.1	-	0.19	≤ 1
Sum of VOC without NIK/LCI	280	-	< 5	≤ 50
Total carcinogens	< 1	≤ 10	-	-
Any individual carcinogens	-	-	< 1	≤ 1
CMR substances	-	-	< 1	≤ 1
Formaldehyde	< 3	≤ 50	< 3	≤ 10
Acetaldehyde	< 3	≤ 50	< 3	≤ 50
French A+	-	-	Complies	

Compliance with the limits alone does not entitle to use the Indoor Air Comfort GOLD label. This requires an application, site inspection, and approval. See www.eurofins.com/iac-procedures.

6.7 Comparison with Limit Values of LEED v4

	Result	Not Compliant	VOC Emission: Compliant[#]
Indoor Air Comfort GOLD®	Pass	Fail	Pass

[#] The tested product is purely shown to comply with the VOC emission requirements of LEED v4. In order to contribute towards satisfying fully the credit on "Low-Emitting Material" according to the requirements of LEED v4, the product also has to comply with the VOC content requirements.