

REPORT 283/L DATE 05.06.2017

Laboratory	GFC Chimica S.r.l. Viale Marconi, 73 44122 Ferrara
Customer	A.T. MARMO SERVICE S.r.l. Via Belvedere, 14 20017 Rho (MI)
Samples identification ¹	28041701 – ECOTHERMO PAINT AIR INTERNI
Samples description	Waterborne paint
Date of receiving	28.04.2017
Analysis beginning (date)	02.05.2017
Analysis end (date)	31.05.2017
Contact	Dr. Alessandro Torretta

1 Introduction

GFC Chimica has examined, by order of A.T. MARMO SERVICE S.r.l. di Rho (MI), herein called as the customer, a sample of waterborne paint identified and described as reported in the table above.

As agreed with the customer the sample was assessed in order to determinate the emissions of volatile organic compounds with the method of emission test Chamber according to the norm EN ISO 16000-9:2006. The formaldehyde and acetaldehyde analysis were carried out according with method EN ISO 16000-3:2011. The other solvents were analyzed according with ISO 16000-6:2004.

The emissions are determined according with the table D, annex I of the Arrêté of 04/19/2011 published in Journal Officiel De La Republique Francaise on 05/13/2011).

The sample was consigned to the laboratory by the customer.

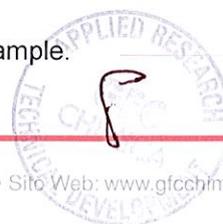
2 Results

2.1 *Determination of the emission of volatile organic compounds*

The sample was applied, by brush in three layers (consumption 382 g/m²), on n° 1 glass substrate (emitting surface 0.11 m²), then assessed as required in test method EN ISO 16000-9.

Chamber Volume (m ³)	Air flow rate (m ³ /h)	Load factor (m ² /m ³)	Temperature (°C)	Relative Humidity (%)	Time (days)
0.11	0.05	1	24.0	48.0	28

¹The code 28041701 is an internal one of GFC Chimica used to mark the sample.
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The results are the following:

Solvents	Concentration ($\mu\text{g}/\text{m}^3$)	Limit value* for Class A+ ($\mu\text{g}/\text{m}^3$)
TVOC (composti organici volatili totali)	196.58	< 1000
Formaldeide	< 1	< 10
Acetaldeide	10.79	< 200
Toluene	3.92	< 300
Tetracloroetilene	1.91	< 250
Xilene	17.24	< 200
1,2,4 Trimetilbenzene	< 1	< 1000
1,4 Diclorobenzene	< 1	< 60
Etilbenzene	3.99	< 750
2-butossietanolo	< 1	< 1000
Stirene	< 1	< 250

*rif. table D, annex I of the Arrêté of 04/19/2011 published in Journal Officiel De La Republique Francaise on 05/13/2011),

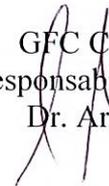
3 Conclusions

The product meets the requirements of the **class A +** according with the data in table D of annex I to the Arrêté of 04/19/2011 published in Journal Officiel De La Republique Francaise on 05/13/2011.

GFC Chimica Srl
L'analista
Ing. Cristina Pocaterra



GFC Chimica Srl
Il Responsabile di laboratorio
Dr. Arlen Ferrari



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END OF THE REPORT
