



# Emission test report of Baril Coatings sample 89119 Copperant Altra Finish Zijdeglans

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Baril Coatings Zilverenberg 9 5234 GL 's-Hertogenbosch The Netherlands

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Servaco/Normec Product Testing is a joint venture between VITO and the Servaco/Normec Group. The new company focusses on product emission testing and VOC reduction performance testing. The product emission tests analyse the impact of all kinds of building and consumer products and materials on indoor air quality. Servaco Product Testing is the legal entity. Normec Product Testing is the trade name.

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### **1. OBJECTIVE/EVALUATION FRAMEWORK**

Determination of the volatile organic compound emissions for the Baril Coatings sample 89119 Copperant Altra Finish Zijdeglans according to the legislations and labels listed in the table below:

French VOC regulations	Arrêté du 28 mai 2009 modifiant l'arrêté du 30 avril 2009, Arrêté du 20 février 2012 modifiant l'arrêté du 19 avril 2011, Décret no 2011 221 du 22 mars 2011)

#### **2.** SAMPLE INFORMATION

#### Table 1: Sample information provided by client

S1	
Sample identification	89119 Copperant Altra Finish Zijdeglans
Date of production	20/04/21
Date of sampling	10/06/21
Batch N°	RB210420-1-1
Type of product	Trim Paint
Article nr.	89119 Copperant Altra Finish Zijdeglans
Misc.	

#### Table 2: Sample information provided by Servaco Product Testing

Sample group code	SPT2021138
Sample code	SPT20211846
Date of reception of the sample	18/06/2021
Preconditioning period (start – end)	no preconditioning
Date of the test (start – end)	28/06/2021 - 26/07/2021



Photograph 1: test sample 89119 Copperant Altra Finish Zijdeglans

### **3. TEST METHODS - ACCREDITATION**

The following test methods were used:

- Test chamber was operated according to NBN EN 16516:2017+A1:2020 (ISO 16000-9 with extra clauses): Construction products Assessment of release of dangerous substances Determination of emissions into indoor air (internal procedure QM001)
- Analysis of TENAX samples was performed according to NBN EN 16516:2017+A1:2020 (ISO 16000-6 with extra clauses): Construction products Assessment of release of dangerous substances Determination of emissions into indoor air (internal procedure QM002)
- Analysis of DNPH cartridges was performed according to NBN EN 16516:2017+A1:2020 (ISO 16000-3): Construction products Assessment of release of dangerous substances Determination of emissions into indoor air (internal procedure QM003)
- The test sample preparation was performed according to NBN EN 16516:2017+A1:2020 (ISO 16000-11 with extra clauses): Construction products Assessment of release of dangerous substances Determination of emissions into indoor air (internal procedure QM001)

EN 16516 method	
Analytical methods	analytes
ISO 16000-3	Volatile aldehydes (C1-C4)
ISO 16000-6 + extra clauses	VOC, SVOC
Test chamber parameters	values
	S1
Chamber volume (m <sup>3</sup> )	0.062
Air exchange rate (h <sup>-1</sup> )	0.5
Temperature (°C)	23 ± 1
Relative humidity (%)	50 ± 5
Loading factor (m <sup>2</sup> /m <sup>3</sup> )	0.05
Sample preparation	
Dimensions (m <sup>2</sup> )	0.05 x 0.06 on glass substrate
Application amount (g)	0.50

Table 3: Overview of the test method parameters

Servaco Product Testing is an accredited laboratory according to EN ISO/IEC 17025 (BELAC 633-TEST) for the internal procedures QM001, QM002 and QM003. At present the accreditation does not cover the compounds marked with \*, however analysis for these compounds was performed at the same level of quality as for the accredited compounds. The analytical measurement uncertainty (expanded uncertainty) for volatile aldehydes amounts to maximum 15 % and 30 % for the other target compounds. The total measurement uncertainty amounts to maximum 30 % for all compound

#### 4. EVALUATION OF THE RESULTS

Compound <sup>1</sup>	CAS	id <sup>2</sup>	Conc.	Classifi- cation	Criteria C	Criteria B	Criteria A	Criteria A <sup>+</sup>
• • • •	number		(µg/m³)	Fr	(µg/m³)	(µg/m³)	(µg/m³)	(µg/m³)
Formaldehyde	50-00-0	1	<1	A <sup>+</sup>	>120	<120	<60	<10
Acetaldehyde	75-07-0	1	<1	A <sup>+</sup>	>400	<400	<300	<200
Toluene	108-88-3	1	<1	A <sup>+</sup>	>600	<600	<450	<300
Tetrachloroethylene	127-18-4	1	<1	A <sup>+</sup>	>500	<500	<350	<250
Ethylbenzene	100-41-4	1	<1	A <sup>+</sup>	>1500	<1500	<1000	<750
Xylene	1330-20-7	1	<1	A <sup>+</sup>	>400	<400	<300	<200
Styrene	100-42-5	1	<1	A <sup>+</sup>	>500	<500	<350	<250
2-Butoxyethanol	111-76-2	1	<1	A <sup>+</sup>	>2000	<200	<1500	<1000
1,2,4-Trimethylbenzene	95-63-6	1	<1	A <sup>+</sup>	>2000	<2000	<1500	<1000
1,4-Dichlorobenzene	106-46-7	1	<1	A <sup>+</sup>	>120	<120	<90	<60
Trichloroethylene	79-01-6	1	<1	A <sup>+</sup>				
Benzene	71-43-2	1	<1	A <sup>+</sup>				
Bis(2-ethylhexyl)	117_91_7	1	<1	A <sup>+</sup>				
phthalate*	117-01-7	1						
Dibutyl phthalate*	84-74-2	1	<1	A <sup>+</sup>				
TVOC		2	48	A <sup>+</sup>	>2000	<2000	<1500	<1000

#### 4.1. COMPARISON WITH LIMIT VALUES OF FRENCH LEGISLATION

No CMR compounds detected.

<sup>&</sup>lt;sup>1</sup> Compounds marked with an \* are not part of the accreditation

<sup>&</sup>lt;sup>2</sup> Identification/quantification:

<sup>- 1:</sup> identification by standard solution and retention time, confirmed by spectrum library and specifically calibrated

<sup>- 2:</sup> identification by comparison with spectrum library and plausibility declaration, calibrated as toluene equivalent

<sup>- 3:</sup> not identified, calibrated as toluene equivalent

Test results are only valid for the tested sample(s), as received from the client. Test report may only be copied or reprinted in its entity, parts of it only with a written acceptance by Servaco Product Testing Page **7** of **10** 

# 5. CHROMATOGRAMS





#### 6. CONCLUSIONS

In the final table below is shown which label the tested product gets according to the French regulations.

	<b>S1</b>
French regulations	A <sup>+</sup>

X : not compliant

√ : compliant

The tested Baril Coatings sample "89119 Copperant Altra Finish Zijdeglans" complies with the French A<sup>+</sup> label.

According to the decision rule defined in the contract, for the above statements of conformity the measurement uncertainty was not taken into account.

# 7. AUTHORISATION OF REPORT

This report contains the results of samples, analysed within the scope of a study ordered by Baril Coatings (Zilverenberg 9, 5234 GL 's-Hertogenbosch, The Netherlands). It relates to the sample(s) with the following Servaco Product Testing - identification:

Sample monster codes belonging to sample group SPT2021138				
From	То			
SPT20211846	SPT20211846			

Servaco Product Testing is an accredited laboratory according to EN ISO/IEC 17025 (BELAC 633-TEST) for the internal procedures QM001, QM002 and QM003.

The laboratory is not responsible for the accuracy of the information provided by the customer (see Table 1). The analytical results in this research report only relate to the samples analysed. Interpretations, advice and other not merely objective information are not covered by the EN ISO/IEC 17025 accreditation. Further information on measurement uncertainty and sample preservation will be provided upon request.

Dates of analysis:

- DNPH: 05/08/2021
- Tenax: 28/07/2021

This research report consists of 10 numbered pages, and the signature below confirms the authorisation of the analytical results according to EN ISO/IEC 17025.

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M. Lor Managing Director Servaco Product Testing