

Emission Test Certificate

Monday 04th October 2021

Supplier: Mapei Australia Pty Ltd (180 Viking Drive, Wacol, QLD, 4076, AUSTRALIA)

Sample Description: Mapelastic AquaDefense

Date Tested: September 2021 (Tested by FORAY Laboratories – NATA Accreditation 1231)

Test Method: Standard Method for the Testing and Evaluation of Volatile Organic Chemical Emissions

from Indoor Sources Using Environmental Chambers, Version 1.2: 2017 (Emission

testing method for California Specification CA 01350).

Sample and Chamber conditions during test period:

Temperature $22.9^{\circ}\text{C} \pm 0.2^{\circ}\text{C}$

Humidity $48\% \pm 3\%$

Chamber Volume 50L

Chamber Flow Rate0.826 L/minChamber Pressure102.5 kPaProduct Loading0.53 m²/m³Air Exchange Rate0.992 hr⁻¹

Emission Collection Time 1500 min for formaldehyde and aldehydes and

128 min for Thermal Desorption tubes VOCs.

Sample Surface Area 0.027 m²

Exposure of sample in chamber 14 days (336 hours)

Test summary: The air samples were collected from the emission chamber at 336 hours for

aldehydes and VOCs. The aldehyde gases were collected on DNPH-treated silica tubes (SKC 226-119) and analysed by Ultra High-Performance Liquid Chromatography (UHPLC). The VOC gases were collected on Perkin Elmer Tenax TA

Thermal Desorption tubes and analysed by ATD-GC-MS as TO-17.

Conclusion: The Mapelastic AquaDefense product complies with the VOC emission limits of the California

Department of Public Health (CDPH) Standard Method V.1.2-2017 CA 01350 specifications.



Emission Data:

California Specification CA 01350	Mapelastic AquaDefense
TVOC Emission Rate Limit: <0.500 mg/m ³	TVOC Emission Rate*: 0.023 mg/m ³
Formaldehyde Emission Rate Limit: <9 μg/m³	Formaldehyde Emission Rate*: 7 μg/m³

All other Target CREL VOCs and their emission rate are well below the maximum allowable concentrations in accordance with Table 4-1 of the standard method.

^{*} The stated result was calculated from an emission rate applied to the Standard Private Office Model (Table 4-4) of the standard using 11.15 m^2 exposed acoustical ceiling panel area, room volume of 30.6 m^3 , and ventilation rate of 0.68 hr^1 .



Mapelastic AquaDefense tested sample

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