

Emission Test Certificate

Tuesday 05th October 2021

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

Sample Description: Ultrabond Eco 380

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 $22.4^{\circ}\text{C} \pm 0.3^{\circ}\text{C}$

Humidity $49\% \pm 5\%$

Chamber Volume 50L

Chamber Flow Rate0.826 L/minChamber Pressure102.5 kPaProduct Loading0.55 m²/m³Air Exchange Rate0.992 hr⁻¹

Emission Collection Time 1500 min for formaldehyde and aldehydes and

126 min for Thermal Desorption tubes VOCs.

Sample Surface Area 0.028 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 Ultrabond Eco 380 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	Ultrabond Eco 380
TVOC Emission Rate Limit: <0.500 mg/m ³	TVOC Emission Rate*: 0.125 mg/m ³
Formaldehyde Emission Rate Limit: <9 μg/m³	Formaldehyde Emission Rate*: 1 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} .



Ultrabond Eco 380 tested sample

Dr. Vyt Garnys

PhD, BSc(Hons) AIMM, ARACI, ISIAQ

ACA, AIRAH, FMA

Managing Director and Principal Consultant

Than's Office

Travis Hale BSc (Biotechnology)

Consultant

Tuan Duong

Consultant

B.Eng. (Chemical)

V2108069