

Our reference: 27/F22/LTR/Y489

27th June 2022

Dear Valued Customer / Business Partners,

RE: AS-4030 MS Flooring Adhesive Statement of Product Compliance

This letter is to elaborate on AS-4030 MS Flooring Adhesive contributing to Leadership in Energy and Environmental Design (LEED) v4.1 credit. The EQ Credit: Low-Emitting Materials requires 75 % of adhesives and sealants to meet the volatile organic compound (VOC) emissions evaluation and 100 % of adhesives and sealants to meet the VOC content evaluation.

For VOC emissions, the product is to be tested as per the California Department of Public Health (CDPH) Standard Method v1.2-2017. The product must comply with the VOC allowable concentration listed in Table 4-1 of the standard method. The total VOC (TVOC) after 14 days is required to be reported in ranges as specified in the standard method.

The parameters for the modelling scenario are as follows:

| Parameter | Value | |
|------------------------|---------------------------|-------------------------|
| | Standard School Classroom | Standard Private Office |
| Volume | 231 m ³ | 30.6 m ³ |
| Air change rate | 0.82 hr ⁻¹ | 0.68 hr ⁻¹ |
| Estimated exposed area | 1.62 m ² | 0.21 m ² |

The TVOC of AS-4030 MS Flooring Adhesive after 14 days is as follow:

| Elapsed exposure hour after 10 days conditioning | Predicted Air Concentration | |
|---|-------------------------------|-------------------------------|
| | Standard School Classroom | Standard Private Office |
| 96 | 0.5 mg/m ³ or less | 0.5 mg/m ³ or less |

Formaldehyde content was not detected for all results (refer to Table 2 and Table 3 of test report 7191274108-CHM22-02-MA-AD2-CR1).



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For VOC content, the product is to be tested as per the South Coast Air Quality Management District (SCAQMD) Rule 1168. The VOC content of AS-4030 MS Flooring Adhesive is 9.49g/L (refer to certificate CCN18040004H03-0). This is below the current (100g/L) under "Wood Flooring Adhesive" category.

Based on the test result of VOC emission (test report 7191274108-CHM22-02-MA-AD2-CR1) and VOC content (certificate CCN18040004H03-0), AS-4030 MS Flooring Adhesive complies to requirements of LEED v4.1 EQ Credit: Low-Emitting Materials.

Should you require any additional information, please do not hesitate to contact us.

Thank you.

Yours sincerely,

For Alseal Marketing Sdn. Bhd.

A handwritten signature in black ink, consisting of a large, stylized 'Y' followed by a horizontal stroke and a small dash.

Prepared by: Yap Wai Hoong
(R&D Chemist)

A handwritten signature in black ink, featuring a large, sweeping loop followed by several vertical strokes.

Verified by: Alex Ng
(General Manager (Technical))