



Our reference: 04/h20/LTR/Y420

4th August 2020

Dear Valued Customer / Business Partners,

RE: “ALSEAL” AS-4000 Mastic Sealant - Low-VOC Compliant

This is to confirm that the volatile organic compound (VOC) content for **“ALSEAL” AS-4000 Mastic Sealant** has been tested by an independent third party testing lab. The VOC content determination was conducted as per the requirement of South Coast Air Quality Management District (SCAQMD) rule 1168.

SCAQMD rule 1168 states that USEPA Method 24 (Determination of Volatile Matter Content, Water Content, Density Volume Solids, and Weight Solids of Surface Coating) shall be used to determine the VOC content of adhesives and sealants. This reference method is **widely accepted worldwide** for the VOC content determination.

VOC Determination Method	Maximum limit	Results	Report no.
USEPA Method 24	420 g/L (All other sealants)	43.61 g/L	CCN20070182H03-0

Conclusion

Based on the results shown above, AS-4000 is able to meet the **low-VOC contact adhesive** requirement.

With the low VOC feature, the use of AS-4000 could contribute to **Leadership in Energy and Environmental Design (LEED)** credits under the **IEQc4.1: Low-Emitting Materials - Adhesives and Sealants** credit category. For Malaysian market, AS-4000 could contribute to the **Green Building Index (GBI)** credits.

Should you require further information concerning the above product, please do not hesitate to contact us.

Thank you.

Yours sincerely,

For Alseal Marketing Sdn. Bhd.

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

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

CERTIFICATE OF ANALYSIS

ALSEAL MARKETING SDN. BHD.
No 86, Jalan Industri 3/3,
Rawang Integrated Industrial Park,
48000, Rawang, Selangor DE.Certificate No : CCN20070182H03-0
Sample Received Date : 24-Jul-2020
Complete Analysis Date : 04-Aug-2020
Date Issued : 04-Aug-2020

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Fax : -

Attn:

Sample Description : Product name: Mastic Sealant
Product code: AS-4000
Brand: Alseal

Analysis Results :

PARAMETER	ANALYSIS RESULTS	UNIT	STANDARD METHOD / TECHNIQUE / EQUIPMENT USED
Volatile Organic Compound	43.61	g/L	USEPA method 24 under SCAQMD Rule 1168 (All other sealants, <420g/L)

ND denotes not detected (< **Numeric number**) denotes detection limits

Remark : -

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