



**ALSEAL MARKETING SDN. BHD.** (625140-D)

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GST No.: 001625505792

Our reference: 08/H18/LTR/Y282

8<sup>th</sup> August 2018

Dear Valued Customer / Business Partners,

**RE: "ALSEAL" AS-4021 All Purpose Hybrid Sealant - Low-VOC Compliant**

This is to confirm that the volatile organic compound (VOC) content for "**ALSEAL" AS-4021 All Purpose Hybrid 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 under SCAQMD Rule 1168	250 g/L (architectural sealants)	52.39 g/L	CCN18070085H03-0

**Conclusion**

Based on the results shown above, AS-4021 is able to meet the **low-VOC architectural sealant** requirement.

With the low VOC feature, the use of AS-4021 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-4021 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  
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(Technical Manager)

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**CERTIFICATE OF ANALYSIS**ALSEAL MARKETING SDN. BHD.  
Lot 2291, Jalan Kampung Baru,  
Kg. Baru Sungai Buloh, 47000 Selangor DE.Certificate No : CCN18070085H03-0  
Sample Received Date : 13-Jul-2018  
Complete Analysis Date : 27-Jul-2018  
Date Issued : 27-Jul-2018

Tel : +603-6157 9698

Fax :

Attn :

Sample Description : Product Name: All Purpose Hybrid Sealant  
Product Code: AS-4021  
Brand: Alseal

Analysis Results :

PARAMETER	ANALYSIS RESULTS	UNIT	STANDARD METHOD / TECHNIQUE / EQUIPMENT USED
VOC	52.39	g/L	USEPA method 24 under SCAQMD Rule 1168 (Architectural Sealants, <250g/L)

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

Remark : -

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L/1828/6037/11