



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

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GST No.: 001625505792

Our reference: 06/C18/LTR/Y236

6<sup>th</sup> March 2018

Dear Valued Customer / Business Partners,

**RE: “ALSEAL” AS-4001 MS Construction Sealant - Low-VOC Compliant**

This is to confirm that the volatile organic compound (VOC) content for **“ALSEAL” AS-4001 MS Construction 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 and SCAQMD Method 303-91	250 g/L (architectural sealants)	ND (<10 g/L)	CN/nCML0080/0215

**Conclusion**

Based on the results shown above, AS-4001 is able to meet the **low-VOC architectural sealant** requirement.

With the low VOC feature, the use of AS-4001 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-4001 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  
(Technical Manager)



**CERTIFICATE OF ANALYSIS**

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Certificate No : CN/nCML0080/0215  
Sample Log Code : nCML0074/0215  
Sample Received Date : 17-Feb-2015  
Complete Analysis Date : 02-Mar-2015  
Date Issue : 02-Mar-2015

Sample Description : AS-4001 MS Construction Sealant  
Analysis results :

Parameter	Unit	Analysis Result	Standard Method/Technique/Equipment Used
VOC Test	g/L	ND(<10)	USEPA Test method 24 and SCAQMD Method 303-91 and using equations set out in L.N. 107 of 2009 Air Pollution Control (VOC) (Amendment) Regulation 2009

ND denotes not detected

(< Numeric number) denotes detection limits

Remark : -

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A/2152/4620/04