#### TEST REPORT: 7191266601-CHM21-01-RC

Date: 06 SEP 2021 Tel: +65 69736171

Client's Ref: - Email: Randy.CHIN@tuvsud.com

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#### **SUBJECT**

Antibacterial Activity Evaluation

#### **CLIENT**

Smart Paint Manufacturing Sdn. Bhd. No. 9 & 11, Jalan Indah Gemilang 5, Taman Perindustrian Gemilang, 81800 Ulu Tiram, Johor, Malaysia

Attn: Ms. Siew Kor Shin

### **SAMPLE SUBMISSION DATE / TEST DATE**

30 Jul 2021 / 11 Aug 2021

## **DESCRIPTION OF SAMPLE**

One sample of coated panel labelled "Eco-Wall Zero VOC with Anti-bacterial Interior Wall Finish" and one sample of uncoated panel were submitted by the above company.

#### **METHOD OF TEST**

JIS Z 2801:2010/A1:2012

"Antibacterial products - Test for antibacterial activity and efficacy".

Test microorganisms used:

Staphylococcus aureus (ATCC 6538P) Escherichia coli (ATCC 8739) Methicillin-resistant Staphylococcus aureus (NCTC 12493)

Size of Coated Sample: 5 cm x 5 cm Size of Uncoated Sample: 5 cm x 5 cm Size of film: 4 cm x 4 cm polyethylene film

Volume of test inoculum: 0.2 ml



Laboratory: TÜV SÜD PSB Pte. Ltd. 15 International Business Park TÜV SÜD @ IBP Singapore 609937 Phone: +65-6778 7777 E-mail: info.sg@tuvsud.com https://www.tuvsud.com/sg Co. Reg: 199002667R Regional Head Office: TÜV SÜD Asia Pacific Pte. Ltd. 15 International Business Park TÜV SÜD @ IBP Singapore 609937

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## **RESULTS**

Test microorganism (Bacterial cells inoculated per test piece)	Average of the number of viable cells of test microorganism per test piece		Value of Antibacterial Activity (Criteria : Not less than 2.0)	
Staphylococcus aureus (ATCC 6538P)	0 hour	24 hours	(Citteria : Not less triair 2.0)	
Uncoated Panel (Control)	110 000	160 000	-	
Eco-Wall Zero VOC with Anti-bacterial Interior Wall Finish	-//	Less than 10	More than 4.21	

Test microorganism (Bacterial cells inoculated per test piece)	Average of the number of viable cells of test microorganism per test piece		Value of Antibacterial Activity (Criteria: Not less than 2.0)
Escherichia coli (ATCC 8739)	0 hour	24 hours	(Chiena : Not less than 2.0)
Uncoated Panel (Control)	100 000	6 400 000	
Eco-Wall Zero VOC with Anti-bacterial Interior Wall Finish		Less than 10	More than 5.81

Test microorganism (Bacterial cells inoculated per test piece)	Average of the number of viable cells of test microorganism per test piece		Value of Antibacterial Activity
Methicillin-resistant Staphylococcus aureus (NCTC 12493)	0 hour	24 hours	(Criteria : Not less than 2.0)
Uncoated Panel (Control)	140 000	91 000	-
Eco-Wall Zero VOC with Anti-bacterial Interior Wall Finish	-	Less than 10	More than 3.96

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## Remarks:

The above test results relate to the samples as received.

**MS CHUA XINNI** HIGHER TECHNICAL

**EXECUTIVE** 

**MS JACLYN NG** MICROBIOLOGIST **MICROBIOLOGY** 

CHEMICAL & MATERIALS



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