

**TEST REPORT: 7191152939-CHM16-01-RC_CR1
(Reissue Date: 13 MAR 2017)**

Date: 19 DEC 2016

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Client's Ref:

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SUBJECT

Antimicrobial Activity Evaluation

CLIENT

STO SEA Private Limited
159 Sin Ming Road
#06-02, (Lift Lobby 1) Amtech Building
Singapore 575625

Attn : Stefan Gisin

SAMPLE SUBMISSION DATE / TEST DATE

09 Nov 2016 / 29 Nov 2016

DESCRIPTION OF SAMPLE

Two samples as below were submitted.

No.	Sample Description
1	StoColor Sil Premium
2	Uncoated Polycarbonate Panel

METHOD OF TEST

JIS Z 2801 : 2012

"Antimicrobial products – Test for antimicrobial activity and efficacy".

The test microorganisms used were :

Escherichia coli (ATCC 8739)
Staphylococcus aureus (ATCC 6538P)
Methicillin-resistant *Staphylococcus aureus* (NCTC 12493)
Pseudomonas aeruginosa (ATCC 15442)



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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 Antimicrobial Activity (Criteria : Not less than 2.0)
	0 hour	24 hours	
<i>Staphylococcus aureus</i> (ATCC 6538P)			
Uncoated Polycarbonate Panel (Control)	88 000	6 800 000	-
StoColor Sil Premium	-	Less than 10	More than 5.83

Test microorganism (Bacterial cells inoculated per test piece)	Average of the number of viable cells of test microorganism per test piece		Value of Antimicrobial Activity (Criteria : Not less than 2.0)
	0 hour	24 hours	
<i>Escherichia coli</i> (ATCC 8739)			
Uncoated Polycarbonate Panel (Control)	110 000	6 000 000	-
StoColor Sil Premium	-	Less than 10	More than 5.78

Test microorganism (Bacterial cells inoculated per test piece)	Average of the number of viable cells of test microorganism per test piece		Value of Antimicrobial Activity (Criteria : Not less than 2.0)
	0 hour	24 hours	
Methicillin-resistant <i>Staphylococcus aureus</i> (NCTC 12493)			
Uncoated Polycarbonate Panel (Control)	90 000	5 700 000	-
StoColor Sil Premium	-	Less than 10	More than 5.76

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RESULTS (cont'd)

Test microorganism (Bacterial cells inoculated per test piece)	Average of the number of viable cells of test microorganism per test piece		Value of Antimicrobial Activity (Criteria : Not less than 2.0)
	0 hour	24 hours	
<i>Pseudomonas aeruginosa</i> (ATCC 15442)			
Uncoated Polycarbonate Panel (Control)	110 000	6 300 000	-
StoColor Sil Premium	-	Less than 10	More than 5.80

Amendments :

Conclusion for interpretation of Results were included on 13 Mar 2017 as per requested by Client.

Conclusion :

Based on the RESULTS, the sample "StoColor Sil Premium" was found to have effective antimicrobial activity in accordance to JIS Z 2801 : 2012 "Antimicrobial products – Test for antimicrobial activity and efficacy" against the test microorganisms listed in METHOD OF TEST.

Remarks :

The above test results related to the samples as received.

MS AW HWEE YING
HIGHER TECHNICAL EXECUTIVE

MR RANDY CHIN KOK FEI
PRODUCT MANAGER
MICROBIOLOGY
CHEMICAL & MATERIALS

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July 2011

