



STATEMENT

1 (2)

Tikkurila Oyj
RDI, Finland
Heidi Koukonen

March 31st, 2016

To whom it may concern.

DEFINING ANTIBACTERIAL ACTIVITY OF ARGENTUM 20 BY TIKKURILA OYJ ACCORDING TO STANDARD ISO 22196

Introduction

International ISO 22196:2011 standard is intended to be used as measurement method of antibacterial activity of plastics and other non-porous surfaces and coatings. Purpose of test is to measure the level of antibacterial efficacy of the material.

Japanese standard JIS Z 2801 has been used on the defining the international ISO 22196 standard. On the JIS Z 2801 standard the requirement of the antibacterial efficacy was *logarithmic reduction of 2 log* of the test microbe. From the international standard this requirement is excluded. Aim of the testing is to produce comparable results between antibacterial surface products.

Test microbe:

Staphylococcus aureus (ATCC 6538P)

Escherichia coli (ATCC 8739)

Products studied:

Argentum 20

0-reference (a reference paint product without active silver)

TIKKURILA OYJ

P.O.Box 53, Kuninkaalantie 1, FI-01301 Vantaa, Finland, Tel. +358 20 191 2000

VAT FI01970674, Business Identity Code 0197067-4, Registered Office Vantaa

www.tikkurilagroup.com

The product is intended for professional use only and shall only be used by professionals who have sufficient knowledge and expertise on the proper use of the product. The information above is advisory only. To the extent permitted by applicable law, we shall not approve of any liability for the conditions under which the product is being used or for the use or application of the product.

In case you intend to use the product for any other purpose than that recommended in this document without first getting our written confirmation on the suitability for the intended use, such use takes place at your own risk.



STATEMENT

2 (2)

Tikkurila Oyj
RDI, Finland
Heidi Koukonen

March 31st, 2016

Conclusion

When tested against *Escherichia coli* (ATCC 8739) a value of antibacterial activity of greater than 2.64 (log) was achieved when compared to the reference paint.

When tested against *Staphylococcus aureus* (ATCC 6538P) a value of antibacterial activity of greater than 3 (log) was achieved when compared to the reference paint.

The number of viable bacteria decreased 99,99 % during 24 h exposure to Argentum 20 painted surface according to ISO 22196 test.

Reduction fulfills the requirement of JIS Z 2801 –standard which was defined as 2 log reduction threshold.

Attachment(s):

Technical Service Report No. B/15/0532 - Evaluating the Antibacterial Activity of Tikkurila AB Argentum 20 Paint, 19.5.2015

BR,

Heidi Koukonen
RDI Manager, Interior Deco Products
TIKKURILA OYJ

TIKKURILA OYJ
P.O.Box 53, Kuninkaalantie 1, FI-01301 Vantaa, Finland, Tel. +358 20 191 2000
VAT FI01970674, Business Identity Code 0197067-4, Registered Office Vantaa
www.tikkurilagroup.com

The product is intended for professional use only and shall only be used by professionals who have sufficient knowledge and expertise on the proper use of the product. The information above is advisory only. To the extent permitted by applicable law, we shall not approve of any liability for the conditions under which the product is being used or for the use or application of the product.

In case you intend to use the product for any other purpose than that recommended in this document without first getting our written confirmation on the suitability for the intended use, such use takes place at your own risk.