

Journal: Applied Microbiology and Biotechnology

Manuscript Title: Antibacterial efficiency over time and barrier properties of wood coatings with colloidal silver

Authors: Massimo Calovi^{1*}, Valentina Coroneo², Stefano Rossi¹

1Department of Industrial Engineering, University of Trento, Via Sommarive 9, 38123 Trento Italy;

2 Department of Medical Sciences and Public Health, University of Cagliari, S.P.8 Monserrato, 09042 Cagliari, Italy;

*Corresponding author: massimo.calovi@unitn.it Tel.: +39-0461-282403

Table S1 Materials for the antibacterial test conditions

Antibacterial surfaces	Wood + Colloidal silver in polyurethane matrix - 2.5 cm × 2.5 cm
Control surface	Wood + polyurethane matrix - 2.5 cm × 2.5 cm
Cover film	Polypropylene film - 2.0 cm × 2.0 cm
Bacterial strains	<i>Escherichia coli</i> ATCC 25922 and <i>Staphylococcus aureus</i> ATCC 6538
Volume of inoculum	100 µl

Table S2 Color change values corresponding to the level of discoloration

Level	Degree of Discoloration	Color Difference
0	no color change	≤1.5
1	very slight discoloration	1.6-3.0
2	slight color change	3.1-6.0
3	apparent discoloration	6.1-9.0
4	severe color change	9.1-12.0
5	complete discoloration	>12.0

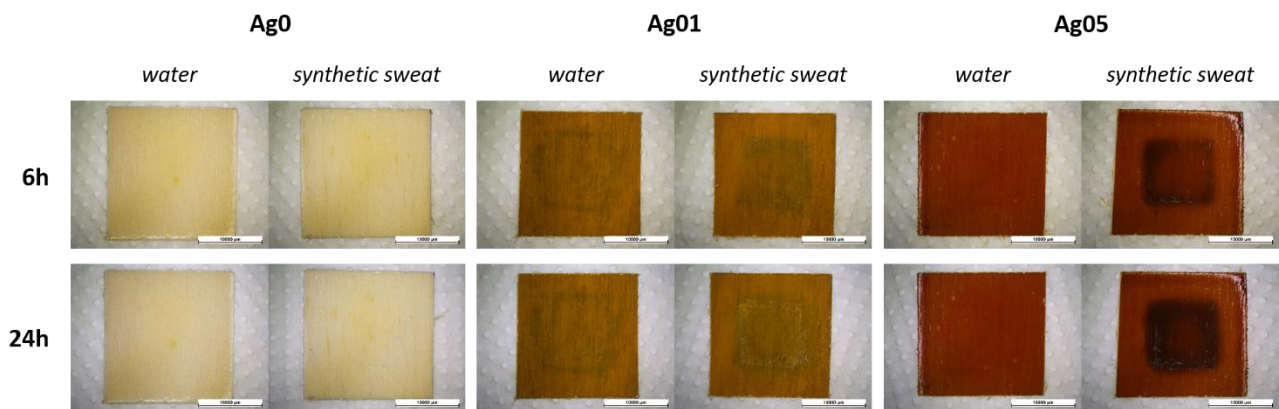


Fig. S1 Evolution of the aspect of the samples during the resistance to perspiration test