Antibacterial product stable to maintenance cycles

In view of known needs in the textile industry, the present invention provides a process for imparting antibacterial properties to surfaces (represented by fabrics), which avoids the use of alcohols and produces a finish that is resistant to mechanical stress, water and solvents normally used in maintenance cycles.

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**REGIONAL COVERAGE**
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**DEVELOPMENT STAGE**
Prototypal

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Antibacterial product stable to maintenance cycles

DESCRIPTION
The invention proposes a treatment for imparting antibacterial and/or anti-odour properties to textile substrates. Through the use of sol-gel technology, the active ingredient integrated in an organic-inorganic hybrid coating maintains its effectiveness even after mechanical stress, contact with water and solvents normally used in maintenance cycles. The possibility of containing the bacterial load also has a positive effect from a health point of view if one thinks of the possible applications such as gowns, sheets or on artefacts such as handles, table surfaces, etc.

ADVANTAGES
• Imparting antibacterial properties to textile substrates
• Finishing resistant to mechanical stress, water and solvents used in maintenance cycles

APPLICATIONS
• Fabrics that protect the wearer from pathogenic and odour-causing microorganisms
• Gowns, sheets and artefacts such as handles, table surfaces

FIELD OF APPLICATION
• Textile clothing
• Technical textiles (trasports, packaging, sport, automotive, …)
• Other materials (woords, metals, natural stones)

KEYWORD
• Sol-gel
• Antibacterial properties
• Textile substrates
• Textile industry

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