# 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.
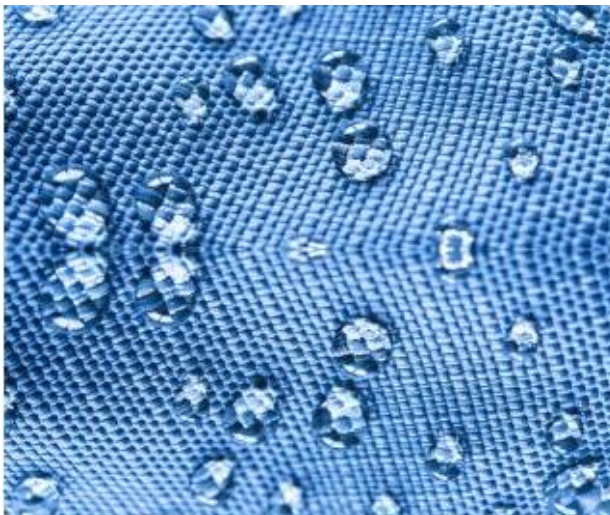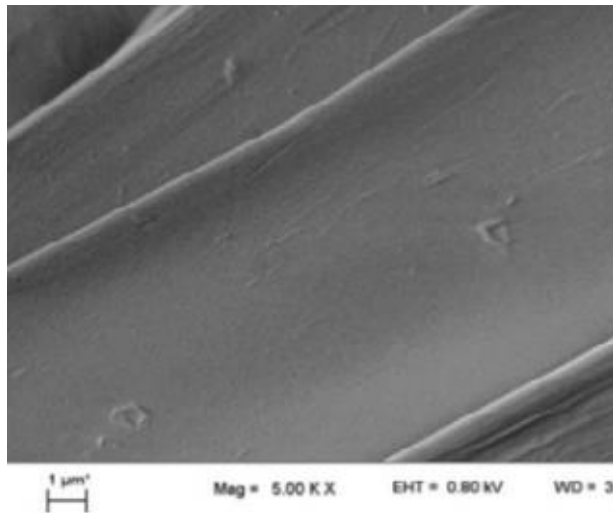
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REGIONAL COVERAGE
Patent filed in Italy

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DEVELOPMENT STAGE
Prototypal

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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

APPLICATONS

- 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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