

Selfcleaning Washable Cotton Textiles and its Blendings

Field of use

Chemical industry
Textile industry

Current state

of technology
Prototype developed
and tested

Intellectual property

patent number: EP2990527

Developed by

University of Ljubljana,
Faculty of Natural Sciences
and Engineering and
National Institute of
Chemistry

Reference

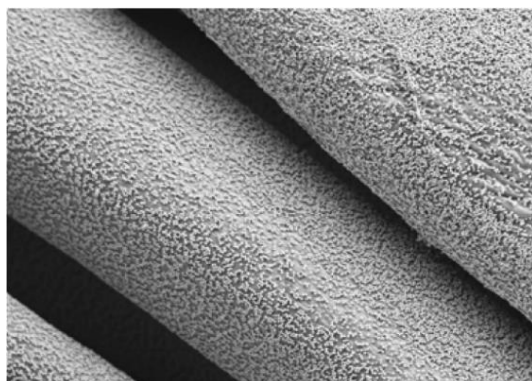
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Contact

Pisarna za
prenos znanja

Jana Šav
Phone: +386 1 241 85 81
E-mail: ipr@uni-lj.si

ppz.uni-lj.si



Background

Cotton is the most widely used fabric, mostly because of its good characteristics: nice to the touch, breathability, hydrophilic character, aesthetic looks, natural source. We are able to add some more characteristics to cotton: superhydrophobic and oleophobic effect while preserving breathability. Our cotton becomes a product with superpowers – we are introducing waterproof cotton, resistant to oil stains.

Description of the Invention

The invention relates to the preparation of breathable superhydrophobic and oleophobic coating for cotton and cotton-polyester textiles that has inclined angle lower than 10° even after 10 washings. This is achieved with preparation of micro and nano roughness and adding extra hydrofobic and oleofobic organic silan precursors.

Main Advantages

- Natural textile with additional characteristics: hydrofobic and oleofobic
- Washable