Composition for use in the finishing, preservation, restoration of manufactures.

KEYWORDS

- ❑ RESTORATION
- ❑ TEXTILE MANUFACTURES
- ❑ PAPER MANUFACTURES
- ❑ FINISHING
- ❑ CONSERVATION
- ❑ NANOMATERIAL
- ❑ COMPOSITE NANOMATERIAL

AREA

- ❑ ARCHITECTURE DESIGN & CULTURAL HERITAGE

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Patent Type
Patent for invention.

Co-Ownership
Sapienza University of Rome 60%, University of Palermo 40%.

Inventors
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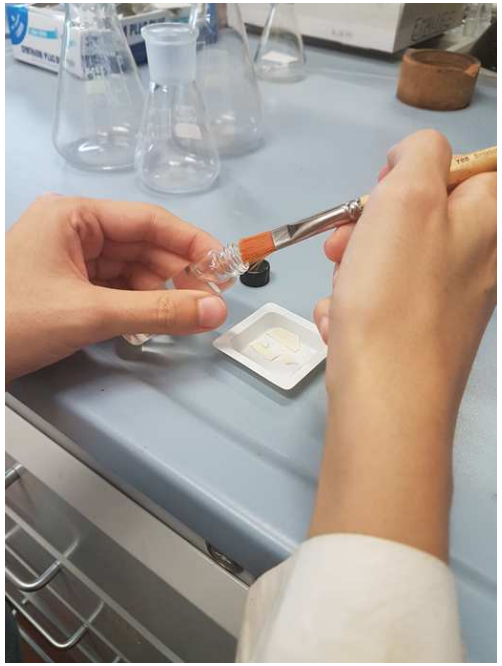
Industrial & Commercial Reference
The product found his market in the fields of restoration materials and finishing agents for fabrics and paper.

Time to Market
The nanoproduct development is complete and ready for commercialization. The kit development requires the support of a company that deals with the packaging.

Availability
Licensing, Start-up and Spin-off.



Abstract
The invention refers to a new nanocomposite material, thought and developed for the restoration of textile and paper artifacts.

By restoring the elastic and mechanical characteristics of the material on which it is applied, it allows the conservation of the restored works, protecting them from further photodegradation processes.

Thanks to its long-term biodegradability, its use does not result in an irreversible method.

These characteristics make it suitable also to assume the role of finishing agent for textiles and paper materials in general, in particular for all those materials that must be subjected to mechanical or particular photo-oxidative stress.

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Technical Description
The composition is still in the secrecy regime and presents only the results of the tests.

Technologies & Advantages
Nowadays, the materials used in the restoration of textile and paper artifacts are often thought for restoration of the pictorial art, etc., not considering the specific features and requests of textiles conservation.

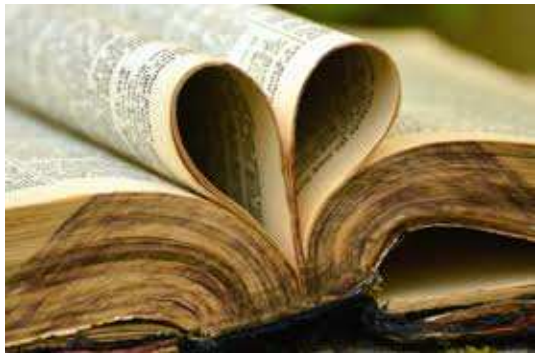
Often there are used extremely invasive materials, that do not necessarily restore the properties of materials, but most of times simply glue fragile textiles to new supports to prevent their further degradation.

In this context, the new composite nanomaterial of the invention, thanks to the synergistic action of its two components, allows to restore the mechanical properties of the restored materials, in particular from the point of view of elasticity, and allows to protect the material on which it is applied from further photo-oxidative stress.

The kit related to the invention allows the easy transportability and preparation of the nanocomposite at the time of application by restorers, allowing dosing and also storage for medium-long times.

Applications
The nanomaterial fits perfectly with the request of restoration of textile and paper fields, which look for products that allow the conservation of the manufactured articles without altering their chromatic characteristics, but improving their mechanical properties and their resistance to photo-oxidation.

In addition to the application in the field of restoration materials, thanks also to the use of the kit that can be easily used by restorers, the product is configured as a finishing or finishing agent for textile materials in general, even at industrial level, when high mechanical or UV resistance performance are required.



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