

Remediation of biotically infected plasters of insulated facades and their preventive protection

Development status

Phase 3

Technology validation and implementing it in real environment. Testing the technology outside of the laboratory and its adjustment to external conditions.

IP protection status

know-howTiO₂

Partnering strategy

Co-development, Collaboration



Institution



Institute of Inorganic Chemistry of the Czech Academy of Sciences

Challenge

Currently, the present problem of biotic infestation of plasters with insulated facades by green algae and mold is being solved. The market lacks an ecologically safe, affordable and effective means of remediation of plasters or means of their preventive treatment. The most commonly used remediation agents are those based on photocatalytic TiO₂ or ZnO nanomaterials, biocides based on quaternary ammonium salts or agents based on organometallic zinc. However, the use of these means is problematic from both an ecological point of view and of a price or hygienic one.

Description

Our innovative solution for the remediation of algae and mold-infested plasters and their preventive treatment against biotic infestation is simple, technologically easily accessible and at the same time highly ecological. The verified stability of the treated plasters is at least 2-3 years, the verification of new agents is still ongoing.

Commercial opportunity

We are looking for partners to verify the use of the new solution in practice, such as producers of building chemicals, who could place the product on the market or apply it themselves.