

New ecological mold and algae removers from the plaster of insulated facades

Summary

Profile type	Company's country	POD reference
Business Offer	Czechia	BOCZ20231009005
Profile status	Type of partnership	Targeted countries
PUBLISHED	Commercial agreement	• World
Contact Person	Term of validity	Last update
Andrii KUTS	9 Oct 2023 8 Oct 2024	9 Oct 2023

General Information

Short summary

The Czech research institutes tested on a laboratory level over period of 2-3 years a simple and ecological solution of the remediation of biotically attacked insulated plasters. This solution involves treatment of the surface of plastering by using of cheap and ecologically completely safe systems based on commercial available registered ingredients. The institute is looking for a partner based on a commercial agreement.

Full description

At present time for the remediation of biotically attacked insulated plasters are used either agents based on photocatalytic nanomaterials (TiO₂ or ZnO) or biocidal substances based on quaternary ammonium salts or organometallic materials, based namely on zinc.

All of these above-mentioned agents currently present problems with price, toxicity, efficacy, availability or with EU legislation. For this reason, there is a lack of safe and effective mold and algae removers on the current market. The Czech research institute is engaged in inorganic and organometallic chemistry. Some very new inorganic compounds based on Zn were used as very effective biocidal purposes, however the compounds lack EU registration which make impossible to use it in practice.

However, under the development of these biocidal agents was found another curiously very simple and ecological

solution for remediation of biotically attacked insulated plasters.

The new simple solution uses commercially available cheap systems of removers, ecologically safe prepared from ingredients registered by legislation of EU which make possible effective remediation or prevention of the of biotically attacked plasters of insulated facades.

The effectiveness of these systems has already been successfully tested on the laboratory level for about 2-3 years.

The institutes is looking for a partner interested in transferring the knowledge the research and laboratory results into practical use and feasible technology based on a commercial agreement with technical assistance.

Advantages and innovations

- simple and ecological system of mold and algae removers
- the system is based on a commercially available, cheap and registred and certificated ingredients
- the ingredients are ecological and safe

Technical specification or expertise sought

Stage of development

Available for demonstration

IPR Status

Secret know-how

Sustainable Development goals

- **Goal 12: Responsible Consumption and Production**
- **Goal 11: Sustainable Cities and Communities**
- **Goal 6: Clean Water and Sanitation**
- **Goal 9: Industry, Innovation and Infrastructure**
- **Goal 17: Partnerships to achieve the Goal**
- **Goal 3: Good Health and Well-being**

Partner Sought

Expected role of the partner

Partner should be an expert in the development of new renovation, remediation products for buildings chemistry. Simultaneously the partner should develop and guarantee the optimum technologies for application of these products.

Optimally, the partner should be able to test the new system in practice, develop the optimum technology of application in practice.

Partner should be able to ensure the relevant EU legislation and protection of IP.
Ideally the partner should be producer of the new remediation systems themselves and finally bring the new product and corresponding technology of application of the product into the EU market based on a commercial agreement with technical assistance.

Type of partnership

Commercial agreement

Type and size of the partner

- **R&D Institution**
- **Big company**
- **SME 50 - 249**

Dissemination

Technology keywords

- **02007002 - Building materials**
- **02006001 - Materials, components and systems for construction**
- **05001003 - Inorganic Chemistry**
- **03004010 - Special chemicals, intermediates**
- **02006005 - Construction maintenance and monitoring methods & equipment**

Targeted countries

- **World**

Market keywords

- **08001023 - Other chemicals and materials (not elsewhere classified)**
- **08001017 - Industrial chemicals**
- **009007002 - Manufacture of building materials**
- **009007006 - Other construction and building products related**
- **009007003 - Manufacture of pre-fabricated buildings and systems**

Sector groups involved