



Sustainable mortars for thermo-plastering applications.

IS IT:

Product

Technology

Equipment

APPLICABLE FOR:

Restoration

Rehabilitation

New Construction

APPLICABLE ON:

1. Foundations and underground structures

2. Vertical structures

3. Horizontal structures and vertical connections

4. Roof and terraces

5. Façade and building envelope

6. Finishes and completion elements

7. Integrated services

8. General strategies for building recovery

Related companies: No companies; university research; structural study.

DESCRIPTION

The product is under development.

The product is a sustainable innovative plastering mortar made from hydraulic lime 3.5 MPa, natural siliceous sand (0-4.00 mm) and crunched agricultural biomass wastes. The product is compatible with historical architecture and traditional construction materials.

The product could be used for plastering applications in either new construction or building rehabilitation. Color may change in dependence of the used biomass wastes.

WHY TO USE

The product is highly resistant to thermal conductivity making it suitable for energy improvement applications.

The product is highly sustainable, high performing, reuses a quantity of wastes in perspective of the Circular Economy.

The application is analogous to that of any plastering compound. The material, in the fresh state can be easily mixed and placed using common spatula. Mixing may be done in construction site directly using traditional mixing equipment.

HOW TO USE AND APPLY

The material can be furnished in the common pre-mixed plastering mortar phase.

TECHNICAL CHARACTERISTICS

Good mechanical performance in accordance with standards for plastering applications. Low thermal conductivity in dependence of biomass waste, nature, and quantity. Low water captivity.

RECOMMENDATIONS AND OTHER INFORMATION

N/A.

EXAMPLES

No example. Scientific research under experimentation.

REFERENCES / SOURCES AND LITERATURE

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WEBSITE OF THE COMPANY

N/A



IMAGES AND CAPTIONS



Fig.1: Photographs of prepared mortar samples. ©Manfredi Saeli

