



Executive Agency
Executive Agency for Small and Medium-sized Enterprises
H2020 SME



ELASTOMERIC COMPOUND WITH PHASE CHANGE MATERIALS INTEGRATED TO STATE OF ART THERMAL INSULATION PANEL (AEROPAN) TO IMPROVE ENERGY SAVING AND CO₂ EMISSION REDUCTION IN CIVIL AND INDUSTRIAL BUILDINGS – AEROPCM (774118)

SMEInst-09-2016-2017 Program Topic.

The aim of the project is to integrate an elastomeric-PCM panel to an aerogel based insulating panel (Aeropan) in order to combine in an single innovative easy to apply product (AEROPCM) – characterized by high performance and low thickness less than 2.5 cm - both thermal resistance and heat storage capacity, greatly enlarging the possibility to improve effectively the energy performance of existing buildings subject of internal retrofit interventions.

The technology breakthrough starting point is the Novurania capability to obtain an elastomeric panel incorporating non encapsulated PCM's. This technology allows a cost reduction and improvement of technology performances. Through a process of open innovation, the main objective of the project is the industrialization and first market application of an innovative prefabricated panel. The main target market of the product under development is the renovation of old, and historical buildings in particular, when the application of the panel must be limited to the internal walls.

The research and development group lead by Novurania includes University of Trento, Fondazione Bruno Kessler, Sapienza University of Rome and AMA Composites.

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