



ECO innovative methodologies for the valorization of construction and urban waste into high grade TILES

with the contribution of the LIFE Programme of the European Union



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the project

The LIFE ECOTILES project will demonstrate the possibility to produce fully recycled (up to nearly 70%) pre-casted cement-based products (Terrazzo tiles) using recycled glass from urban and industrial waste, ceramic and Construction & Demolition Waste (CDW). The production will have a substantial less (-20%) environmental impact than for traditional tiles and achieve the manufacture of high-grade pre-casted products. ECOTILES products will contribute to the achievement of EU 2020 goals on *Waste and Resource Efficiency*, by reducing emissions, resource waste, impacts on human health and the environment (info ecotiles@unicam.it, www.ecotiles-lifeproject.eu).



the partners

The project sees the collaboration between the scientific expertise of the Mineralogy-Petrology group at University of Camerino for the study of geomaterials, and the Grandinetti company, leader in Italy specialized in the production of traditional and artistic terrazzo tiles. The partners are located in the Marche Region (Italy), an area where history and tradition fit well with technology and innovation.

University of Camerino

The Geochemistry-Mineralogy-Petrology (GMP) group at University of Camerino is actively involved in research projects for the study of geomaterials both in themes close to basic research and in applicative problems. The expertise of the group resides in the chemical and structural characterization of crystalline materials (both natural and synthetic compounds), glasses (silicate glasses and melts), pigments, ceramics and cements. Experimental facilities allow also the synthesis of glasses and compounds at high temperature and pressure. These studies find interest and applications in a wide range of subjects, from geosciences to new materials technology, from archaeology to materials science.

ECOTILES Project coordinator is prof. Eleonora Paris (eleonora.paris@unicam.it).



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Grandinetti

The Grandinetti company was established at the beginning of 1900 in San Severino Marche (Italy) and is leader in the production of the traditional marble chip tiles and cement tiles. The century-old experience combined with a natural talent for innovation makes Grandinetti a leading company in Italy for the production of conglomerates and coverings. Evidence of the commitment to innovation is the introduction of technology single-layer technology (one of the first companies in the world) and the realization of various patents (the "microcamere-curing" process for tiles and a new kind of press for the production of monolayer tiles). Grandinetti is also the first and still the only company in the world that produces monolayer cement tiles, with about 70% of the market in Italy and 30% in Europe and in the rest of the world (Russia, Israel, USA...)

www.grandinetti.it



kick-off meeting

University of Camerino, november 27th

After the official kick-off meeting in Bruxelles at the beginning of November, an operational kick-off meeting has been organized to discuss about the work plan of the operations in the first period of the project. The meeting was especially devoted to administrative and organization topics, but also to discuss about more technical questions and to organize the following steps and meetings. The group decided to meet regularly to share experiences and expertise, alternating between industry and university, to better know each other's methods and carry out the project with a very close collaboration. This will benefit the project and also provide experience in industry for the young researchers involved.