

**COMPLETION OF THE FIRST DEMONSTRATION SITE
AT ALFA MARMMI – San Gennaro Vesuviano (NA) 25 July 2025**

The coordinating partners, IS.I.M. and ALFA MARMMI, announced that the activities related to the set up and test of the first prototypal ECOGEO plant (foreseen by LIFE-ZSW project – Task 3.1) have been finalized and the installed equipment (GEF, GEM+GES and GEA) are fully operative. Please consult Deliverable D3.1 for details on the equipment.

GEF



GES



GEA

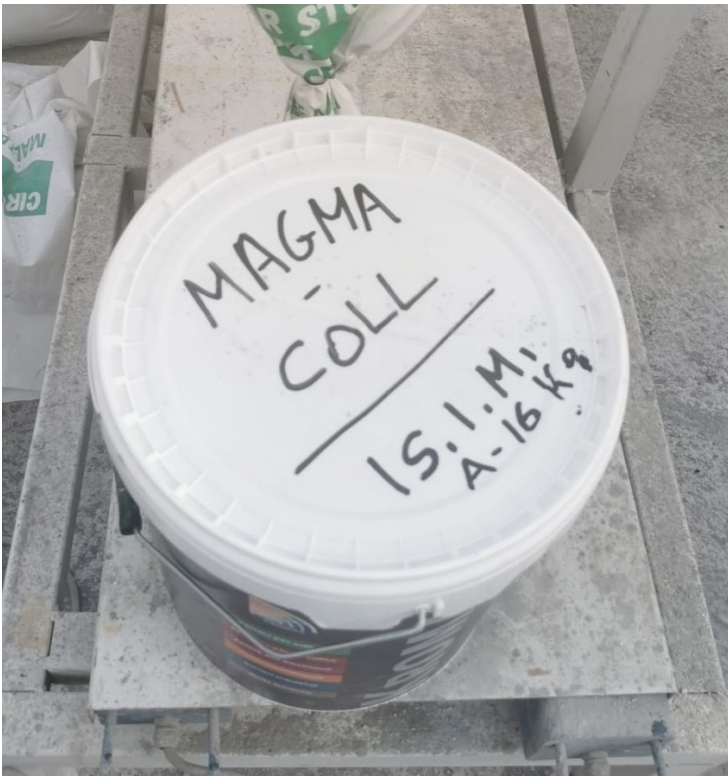


GEM

The partners decided to mix the stone waste of ALFA MARMMI (mainly composed by basalt) with the proper additives and binders, obtained different types of END-PRODUCTS:

- A high-quality ADHESIVES (COLLA C1 and C2) which the partners will present to the market soon, with the name MAGMA-COLL
- A high-quality waterproof mortar-membrane to be use under the paving with flexibility and elasticity, with the name MAGMA-FLEX
- A “regenerated and reconstituted” basalt with the name MAGMA-CRETE or ECO-BASALT: pre-formed blocks or artefacts of different shapes, dimension, color, etc.

We point out that those END-PRODUCTS are high eco-compatible as they are prepared where the stone waste are stored (Km-ZERO) and are CAM, containing a huge percentage (> 70%) of waste.



The picture shows the first “release” of the wet adhesive (high quality: C2 level), which will be packed /and marketed) in barrels (20-25 Kg) or, on request for bigger quantities, on big bags (till 1.000 kg).

The chemical analysis of MAGMA COLL stated that the “potential harmful” components are under the threshold established by the norms. MAGMA COLL CE and CAM certifications are in process and it is expected to obtain them before the and of 2025.

It follows some samples of MAGMA-CRETE or ECO-BASALT, which could be in the future produced both industrially, for instance small blocks or slabs of pre-defined dimension, or “On-demand” with specific shapes, for instance to be used into urban furniture, gardens, etc.





Blocks in MAGMA-CRETE



Blocks and Frames in Magma-Crete



Painting/Thin coatings with basalt waste: dark, grey and green.



Floating pavings

