

PROGETTI DI CONSERVAZIONE DEI BASOLATI STORICI NEI CENTRI URBANI TRA SOSTENIBILITÀ E PROGRAMMAZIONE A LUNGO TERMINE: IL CASO-STUDIO DI PIAZZA SANT'ORONZO A LECCE

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Abstract.

Lecce is a stone city in the most complete sense: the buildings elevations, the valuable Baroque decorative elements, but also the materials of the streets are stone. An historic paving distinguishes the entire historic centre and today finds itself coexisting with the needs of a lively, touristy and above all motorized city.

In 2021, the municipal administration undertook a redevelopment action of the historic centre stone paving.

To respond to the requests of the town council and Superintendency, the project in the central Sant'Oronzo square intervened by dismantling the historic paving and reassembling it with MAPESTONE CALCIX, a system of two premixed mortars for bedding (TFB) and grouting (PFS), both based on natural hydraulic lime (NHL), recycled inorganic materials with pozzolanic reaction with selected aggregates and specific additives; the result is a highly sustainable and durable solution, in compliance with UNI 11714- 1.

The square was thus returned to the citizens with its original stone paving and an installation system that not only respected the ancient systems and the superintendency's prescriptions but was formulated using recycled materials with high pozzolanic reactivity. A redevelopment in the name of sustainability, durability and maintainability, which also earned both the Administration and the Project the nomination for the *Cresco Award* dedicated to sustainable cities.

Keywords: *stone paving, sustainability, durability, maintainability, cleanability.*