

ARCHITECTURAL ROAD SURFACES in stone and concrete

AESTHETIC QUALITY WITH HIGH MECHANICAL PROPERTIES AND DURABILITY:
A FEW PROJECTS CONFIRMING MAPEI'S EXPERIENCE IN THIS SECTOR

TRIESTE PROMENADE LIGNANO SABBIAADORO (ITALY)

The aim of this complex urban redevelopment project, which had been so firmly desired by the Lignano Sabbiadoro local council, was to combine current norms with the latest technology to create an area open to everybody and designed to last well into the future.

The area worked on during the intervention is around 20 m wide and runs in a straight line for around 1.8 km. The main aim of the new design was to leave the rows of trees and parking spaces intact, by repaving the entire area to highlight a series of focal points and points of visual interest through the use of different paving materials and varying the installation techniques, reinforcing the idea of “bridging the divide” between the town and the sandy shoreline.

The entire area has been reorganised to provide more space for pedestrians and bikes than for vehicles by having a richer array of plants on display (flowerbeds and large planters featuring bushes and flowers), without penalising the flow of traffic, which was achieved by reorganising and rationalising the spaces available for vehicles to help maintain the flow and provide parking areas.

AESTHETICS AND FUNCTIONALITY FOR LONG-LASTING PAVING

The materials used for the new paving have played a key role on this site. With the aim of combining aesthetics and functionality – and durability in particular – two cutting-edge Mapei technologies have been used: the MAPEI COLOR PAVING® system for the coloured architectural exposed aggregate concrete and the MAPESTONE line for architectural stone surfaces for vehicle traffic. The latter were made from MAPESTONE TFB CUBE and MAPESTONE PFS2, in compliance with Italian standard UNI 11714-1:2018. The MAPEI COLOR PAVING® system meets the aesthetic requirements specified by the Local Heritage Board by creating an evocative visual effect, thanks to which the sea and the sand seem to become part of the road.

The flexible, tailor-made technology of MAPEI COLOR PAVING® provides the surfaces with a particular finish similar to terrazzo and, therefore, has the ability to meet all the aesthetic requirements of designers without compromising on mechanical performance and exceptional durability.

The MAPESTONE system, on the other hand, guarantees long-term durability for paving exposed to high stresses induced by the constant passage of vehicles. Going into detail, MAPESTONE TFB CUBE is a pre-mixed mortar for architectural stone pavings, suitable for class of exposure XF4 and XS3, with high compressive strength and resistance to de-icing salts, freeze-thaw cycles, and seawater. MAPESTONE PFS 2, on the other hand, is a pre-mixed, high-strength mortar with good resistance to de-icing salts, seawater and freeze-thaw cycles, exposure class XF4 and XS3, for grouting architectural stone paving.



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IN THE SPOTLIGHT

MAPESTONE TFB CUBE

It is a premixed ready-to-use mortar for the installation of natural stone units for external paving and road finishes. MAPESTONE TFB CUBE is the core product of MAPESTONE system, which allows to realize architectural stone paving with high durability even in environments subject to rain and freeze and thaw cycles, in the presence of de-icing salts and seawater (environmental conditions classified by EN 206 as XF4 and XS3). It is easy to use and may be prepared in either a plastic or “no-slump” consistency, depending on the type of paving units to be laid.



TECHNICAL DATA

Trieste Promenade, Lignano Sabbiadoro (Italy)

Year of construction: early 1950s

Period of the Mapei intervention: 2018 - ongoing

Intervention by Mapei: supplying products to build exposed aggregate concrete floors and stone floorings

Design: Archest Srl

Main contractors: A.T.I (Associazione Temporanea Impresa) Lungomare Lignano S.C.A R.L., Impresa Polese SpA, and Adriacos Srl

Concrete flooring contractor: Lithos Pav Di Leone Savino

Works director: Lucio Asquini

Works assistant director and coordinator: Samuele Gialuz

Site director: Carlo Versolato (Polese S.p.A)

Deputy site director: Stefano Mariotti (Adriacos S.r.l.)

Stone installation companies: Posatori Porfido Meta Sas; Posa Porfidi 3000 Srl; Friulpose Snc.

Mapei coordinators: Ivan Carlon, Marcello Deganutti, Giuseppe David, Claudio Azzena, and Luca Nordio, Mapei SpA (Italy)

MAPEI PRODUCTS

Mapestone PFS 2, Topcem Pronto, Keraflex Maxi S1, Planicrete, Mapefoam, Mapestone TFB Cube, Color Paving Admix, Mapewash PO, Mapewash Protex