

San Felice Circeo (Province of Latina, Italy)

Polystrada membrane on top of sewer systems

A BITUMINOUS MEMBRANE BY POLYGLASS WAS USED TO REPAIR ROAD SURFACES AFTER COMPLETION OF THE SEWER LINE



TOP OF THE PAGE, LEFT. Installing POLYSTRADA SA membrane on the road surface.

ABOVE. Excavating works for installing the sewer system.



A new sewer line has been constructed for the local water supplier Acqualatina in San Felice Circeo in the Province of Latina (Central Italy) by installing two gravity-flow collectors and a pumping station with delivery pipes. Users from the catchment area where the work was carried out were then tied into the main pipelines. To position the new sewer pipes, and the branch pipes towards the various users, a series of fixed-section trenches had to be dug out.

After back-filling the trenches with appropriate materials, the road surface was reinstated by applying a completely new bituminous conglomerate package consisting of an 8 cm binder layer and a 4 cm wear layer. To limit the risk of settling and sinking due to the difference in stiffness between the areas where work had been carried out and the adjacent areas left intact, a strengthening system was also installed.

An innovative membrane

When reinstating the road bed and surface, POLYSTRADA SA bituminous membrane was also included. POLYSTRADA SA is an elastomeric prefabricated geomembrane comprising a dual self-adhesive bituminous compound, reinforced with a non-rotting environmentally sustainable polyester mesh and fiberglass. This special reinforcement provides excellent dimensional stability and elastic properties resulting in resistance to static and dynamic loading. It ensures good workability on site, guaranteeing easy and rapid installation. It is part of the family of products incorporating ADESO® technology, an innovative self-adhesive compound that delivers excellent adhesion to all surfaces along with remarkable longevity. The bond between the membrane is strengthened further by the heat of the asphalt pavement and under the effect of traffic and sunlight. The membrane was installed in June, 2022, over an area of 7,000 m² and was inserted between the binder layer and wear layer of the road surface.

TECHNICAL DATA

New sewerage network, San Felice Circeo (Italy)
Period of the intervention: 2021-2022
Intervention by Polyglass: supplying a waterproofing membrane
Owners: Acqualatina Spa and San Felice Circeo City Council
Road repair works: Edil Tecnocostruzioni di Iovine Nazario
Mapei coordinators: Federico Ancillotti, Domenico Caprio, Savino Seccia, Mapei SpA (Italy) and Ines Antunes, Polyglass SpA (Italy)

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