

Transport Business Successfully Waterproofs Car Bridges

BITUTHENE® 5000 and SOLARSHIELD® 100 used in Expo Milan 2015 project.



Project	EXPO Milano 2015
Owner	EXPO 2015
Engineer	Marco Acquati Engineer (MM)
General Contractor	Ing. Mantovani SpA
GCP Solutions	BITUTHENE® waterproofing, SOLARSHIELD® waterproofing

The Overview

The Project

Expo Milano 2015 was a non-commercial exhibition site, which was open from 1st May to 31 October, 2015. The exhibition site covered 1 million square metres and welcomed over 20 million visitors, hosted over 130 participants and ran for 184 days.

The project involved bridge construction of several small trafficable bridges linked to the main EXPO deck, which crossed over an artificial stream.

"We proposed a self-adhesive membrane solution to satisfy the needs of the bridge construction project. The proposal consisted of both Bituthene® 5000 and Solarshield® 100 membranes to the bridge deck areas."

The Challenge



The transport business required a low-thickness waterproofing membrane, which offered protection to the bridge decks and also met the criteria defined by Milan Metropolitan office (MM). The chosen system had to offer resistance to hot asphalt, provide complete adhesion and be easy to apply.

The Solution

We proposed a self-adhesive membrane solution to satisfy the needs of the car bridge construction project. The proposal consisted of both BITUTHENE®5000 and SOLARSHIELD®100 membranes to the bridge deck areas.

Over a two year period, we established a strong relationship with MM, providing data and support on detailing, prescription clauses and an economic assessment.

Ing. Mantovani spa was named General Contractor of the project who, together with our team members, successfully concluded discussions on some critical points leading to the final order.

About the Products

BITUTHENE®5000 is a preformed, cold applied sheet membrane that is 1.6 mm thick overall, comprising a self-adhesive rubber/bitumen compound, protected with a silicone release paper, with a polypropylene mesh carrier film and is supplied in 1.0 m x 20.0 m long rolls.

SOLARSHIELD®100 is a robust, cold applied self-adhesive aluminium membrane, which can be used as a conformable solar reflective flashing or protection for exposed roofing membranes.

GCP's Blue 360SM Field Advantage team provided ongoing site support ensuring materials were applied according to the recommended installation guidelines. This value-added service was critical since no specialised applicator was involved.

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