



SAMI SOLUTIONS

SAMlseal



SAMlseal Solution No. 1

SAMI seals AusAID's largest international project

Spectacular new bridge in Vietnam relies on SAMI's unique waterproofing technology



Opened in May 2000, the My Thuan Bridge spans the Mekong River 130kms South of Ho Chi Minh City. Costing \$120 million, it was $\frac{2}{3}$ funded by the Australian Agency for International Development (AusAID) and $\frac{1}{3}$ by the Vietnam Government. Over 1500 metres long, the dual carriageway bridge is supported by two massive towers and spans the river on the mudflats of the Delta, where the river is 800 metres wide on an unstable, shifting delta floodplain. The concrete deck area measures 25,000m².

A First For Vietnam

The massive My Thuan Bridge project was one of the first applications of rubberised bitumen pavement technology seen in Vietnam. During the construction of the bridge, the decision was made to include a waterproofing membrane on the concrete deck by the consultant engineers. SAMI was contacted and became involved in the

design and testing of the technology, to ensure its products met the project's unique specifications and requirements.

In its Sydney Laboratory, SAMI chemists thoroughly tested the compatibility of its polymer concentrate SAM 'C', with bitumen imported from Singapore to be used on the project, and locally sourced aggregate in Vietnam. In close

consultation with the project's Contractor, Baulderstone Hornibrook, SAMI's expertise was called on to source suitable equipment, materials and labour in Vietnam, to enable the work to proceed.

SAMI provided on-site expertise to ensure the prime and the membrane were suitably prepared and correctly applied to the deck.

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The massive My Thuan Bridge project was one of the first applications of rubberised bitumen pavement technology seen in Vietnam. Here, SAMIprime QDP is applied to the concrete deck of the bridge prior to the application of SAMIseal waterproofing membrane, to ensure penetration and adhesion of the membrane. SAMI's expertise was called on to source suitable equipment, materials and labour in Vietnam, to enable the work to proceed.

SAMIseal Bridge Deck Waterproofing membrane, incorporating SAMI's SAM 'C' polymer concentrate, is applied as a waterproofing layer between the concrete bridge deck and the asphaltic concrete wearing course. This prevents any water, which may find its way through the asphalt, from entering any small cracks in the concrete, thus increasing the lifespan of the concrete deck. The SAM 'C' was supplied in 20kg blocks, blended with the bitumen, heated, thoroughly mixed, then sprayed on the deck.

Internationally Renown Contractor Relies on SAMI's Expertise and Technology

The \$120 million My Thuan bridge project in Vietnam was the (fourth) such project undertaken by Balderstone Hornibrook. In each case, the contractor has relied on SAMI expertise and technology.

SAMI was also involved in the sealing of the adjacent access roads and approaches to the bridge. The My Thuan project is a fine example of Australian and Vietnamese engineering teams working together to solve a unique set of challenges.



10mm aggregate is applied to the SAMIseal Bridge Deck Waterproofing membrane, which was later paved with an asphalt wearing course.

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Our thanks to Balderstone Hornibrook's Project Director, Richard Magnusson. Consulting Engineers for the project were Maunsell McIntyre. For further information, please refer to SAMI's latest Technical Bulletin #39.



For further information on any of the products featured in this Case Study or any of SAMI's other specialist road maintenance products and services, please contact:

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