



SAMI SOLUTIONS

SAMiflex E50



SAMiflex Solution No. 4

SAMiflex chosen to handle the extremes of South West Queensland

Queensland Department of Main Roads problem solved

Winter start poses problem for Warrego Highway project engineers

Queensland DMR's Charleville Engineer-in charge Mr Ric Church, needed a product that could be easily applied in May temperatures as low as minus 5 degrees Celsius.

The product also needed to withstand searing summer heat and heavy rains and then cope with constant road train traffic. SAMiflex E50 did the job.

The Warrego Highway project at Morven, 90kms east of Charleville, was completed by June 30, 1999. It consisted of three sections totaling 11.5kms.

***Two years later
the pavement and
its seal is still
working well.***

The existing seal width was 5.5m. It was cracked but still had good shape. The shoulders were weak, especially after rains, and the outside wheel paths had significant deformation, caused mostly by the heavy road train traffic and the soft shoulders.

SAMI reduced the risk

Mr Church had dealt with SAMI before and was confident their team would come up with



These photos show the transformation of one section of Queensland DMR's Warrego Highway project. The top photo shows the original cracked seal showing the weak shoulders and wheel path deformation due to heavy rain and traffic. The bottom photo shows the SAMiflex E50 high residue polymer modified emulsion being applied to the full width of the pavement. The shoulders were in-situ stabilised and formation width increased to 9.0m.



the right product to meet the job specifications.

The SAMiflex E50 high residue emulsion allowed the seal to stretch over existing cracks and to eliminate the risk of water damage to the joint in the future.

Also, in trying to apply any sealer in winter, heat is lost too quickly. The SAMI application, done in freezing conditions, went smoothly.

The Highway's wheel track deformation was shape-corrected using cold asphalt

Queensland DMR's Charleville team needed a product that could be easily applied in temperatures as low as minus 5 degrees Celsius and withstand searing summer heat and heavy rains - then cope with constant road-train traffic.



These photos show a section of Queensland DMR's Warrego Highway project in various stages of repair. The shoulders, weakened by constant wheel-path deformation and heavy rain, were in-situ stabilised and formation width was increased to 9.0m (centre photo). The SAMiflex E50 was able to be sprayed directly onto the prepared surface of the stabilised widened shoulders, eliminating the need for a primer seal.

with some areas sealed with C170 bitumen. The shoulders were in-situ stabilised and formation width increased to 9.0m.

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2.8 - 3.0 litres per m² of

SAMiflex E50 was applied and covered with a 16mm pre-coated sealing aggregate.

Trust in SAMI

Mr Church appreciated that the SAMI team was always willing to talk openly and honestly about the performance of its products. The team was found to be easy to talk to and its "nothing's a

problem" attitude ensured that the project ran smoothly.

In the harsh South-West environment, the OLD DMR Charleville team needed to know they could trust a product to perform - right from the start. They were delighted with the result.

Our special thanks to Queensland DMR's Charleville Engineer-in-charge, Mr. Ric Church.



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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