



KAYTECH
ENGINEERED FABRICS

Road Rehabilitation Lanseria Airport ,Gauteng

Case Study

Project: Lanseria Airport Runway

Client: Lanseria Airport Company

Consultant: Africon

Contractor: Lonerock

Date: April 2004

Product: 1400m² Sealgrid

The beginning of the runway had to be reconstructed due to large cracks forming over this section. The Engineer's design was a selected layer of a 150mm, 300mm C3 sub-base layer, a 150mm G1 base and 40mm asphalt surfacing.

Due to time constraints with stabilization, the engineer decided to substitute the 150mm G1 base layer with a 150mm C3 layer. The engineer decided to use Sealgrid as the reinforcing layer to be installed between the base and the asphalt to prevent reflective cracks from the stabilised base to the asphalt. This would provide the additional strength that was needed and to prevent reflective cracking.

A 65% Cationic bitumen modified with 3% latex was used as a prime @1 litre/m². The Sealgrid was laid over the wet bitumen with the reinforcing yarns facing up. A pneumatic roller was used to roll the fabric down. A very light coat of approx. 0,4 litre/m² was applied over the areas where the bitumen had not come through the fabric. A thin asphalt armouring layer was spread over the wet fabric.





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