



Road Maintenance Asphalt Reinforcement N1, Koppies to Kroonstad, Free State

Case Study

Project:	N1, Koppies to Kroonstad, km 100 150 to km 100 460	Date:	May 2004
Client:	South African National Roads Agency Limited (SANRAL)	Product:	Sealgrid™
Consultant:	Africon / Tshepega Joint Venture	Quantity:	4 778 m ²
Contractor:	Roadmac Surfacing		

Large cracks had formed in this section due to the heavy vehicle traffic and the underlying soil conditions. The cracks had become progressively wider penetrating into the surface by approximately 25 mm, and action had to be taken.

The consultants decided to use **Sealgrid** as an asphalt reinforcement interlayer beneath an extensive asphalt overlay. Firstly a tack coat (Cat 65 @ 1,2 l/m²) was sprayed and **Sealgrid** placed down with the glass grid facing upwards. A blinding layer was placed on the **Sealgrid** to prevent the asphalt paver from damaging the grid. The design included three different asphalt overlays in different phases, described here from the bottom up:

- 60 mm bitumen treated base (BTB)
- 35 mm SBS AC Medium
- 18 mm ULM (Ultra thin)





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