

## CASE STUDY

Roads | Surface Rehabilitation | Hilton Avenue, KZN

May 2015

Client KwaZulu Natal Department of Transport

Contractor Action Asphalt

Consultant Umsunguli Project Management

Product **Sealmac**<sup>®</sup> | 1400m<sup>2</sup>

Rep Paul Lombard

### Problem

The access road to the newly built Hilton Life Hospital had deteriorated due to age as well as increased traffic loading. The client decided the road surface – with evidence of crocodile cracks and pumping - needed rehabilitating without incurring the expenses of a complete resurface at the present time; a solution that would last a few years or until more funds became available.

### Solution

**Sealmac**<sup>®</sup> was installed and paved over with a 50 mm layer of asphalt. The bitumen used for the tack coat was a 3-5% latex-modified cationic emulsion applied at a spray rate of 1.0 l/m<sup>2</sup>. However, due to a shortage of bitumen at the time, some of the **Sealmac**<sup>®</sup> was saturated with a Cat-60 without latex, where the **Sealmac**<sup>®</sup> was already sticking to the surface or where the latex-modified emulsion did not fully saturate the **Sealmac**<sup>®</sup>. The 50 mm layer of medium mix asphalt comprised a 9.5 mm stone with a 5.5% bitumen binder content.

### Benefits

Using **Sealmac**<sup>®</sup> translate to reduced construction costs, reduced maintenance costs, prolonged fatigue life and reduced overlay thickness.



*Sealmac<sup>®</sup> was laid over bitumen on milled surface*



*Gravel spread over Sealmac<sup>®</sup> under a 50mm asphalt layer*



*The repaired road surface*