

## CASE STUDY

### Roads | Surface Rehabilitation | N1 Polokwane

Apr 2014

Client National Transport Research Centre (NTRC)  
 Contractor Grinaker / Sixbar Trading  
 Product **Sealmac**<sup>®</sup> | 100m<sup>2</sup>

Consultant BKS (AECOM)  
 Rep Christiaan van Wyk

#### Problem

After an explosive accident occurred on a section of the National highway, the resulting crater needed repairing particularly urgently because of expected high traffic volumes over the ensuing Easter weekend.

#### Solution

All debris caused by the blast was removed. The layer works were filled with crush-run which was then compacted and sprayed with a tack coat. **Sealmac**<sup>®</sup> was installed over the tack coat and covered with a fine layer of 4.5 mm stone aggregate to provide skid resistance.

One setback was that the side drain channel was destroyed by the blast and there was not enough time to have it repaired. Consequently it caused water ingress into the road layers, which resulted in some deformation, but no instability to the road.

#### Benefits

These include ease of installation, low cost, lower maintenance costs and prolonged fatigue life. It was installed in just one day and the repaired road performed well under the larger than usual volume of traffic.



*The road accident damage*



*The layer works were filled with crush run*



*A tack coat was applied over compacted layer works and **Sealmac**<sup>®</sup> laid on top*

## CASE STUDY



*A skid resistant stone layer applied over **Sealmac**<sup>®</sup>*



*The road was ready for traffic after 1 day's repair works*