

CASE STUDY

Roads | Rural Rehabilitation | Fafaza Road, Pietermaritzburg

May 2012

Client KZN Dept of Transport

Contractor Zamahlobo Trading

Product **Multi-Cell®** | 1,2 km

Consultant KZN Dept of Transport

Rep Sham Luchai

Problem

Upgrading existing roads by asphaltting in the rural areas of Pietermaritzburg was found to be too costly.

The roads were very narrow, poorly constructed and many of them were on a steep slope. Gushing rainwater had caused increased erosion of these slopes which exacerbated the difficulties experienced by the residents walking to and from their destinations.



Multi-Cell® was easily installed using local labour

Solution

100 mm **Multi-Cell®** was specified as the economical and highly effective alternative. The woven slit film honeycomb cells were filled with concrete to provide a concrete shuttering and finished height profile.

The concrete infill's built-in joints conform to the finished slope profile to distribute the traffic loads laterally.



Multi-Cell® was filled with concrete

Benefits

Since **Multi-Cell®** is so quick and simple to install, the contractor was able to create job opportunities in the area by employing unskilled local labour. Very little machinery was required and very few spoils had to be removed off-site. The one-month scheduled time frame for the project was achieved.



The finished road