

BUILDING ROADS

The preferential use of concrete block paving



***Working together
to build a better future***





CONCRETE BLOCK PAVING

Concrete Block Paving (CBP) is a system of individual shaped blocks arranged to form a hard surface overlay that can last for decades with little or no maintenance being necessary. It is designed to endure the highest stresses of traffic. An average compressive strength of 25MPa (Class 25 SANS 1058) and 60 mm thickness is used for the Low Volume Roads. The Blocks come in different designs and colors.

MULTIPLIER EFFECT

There are various technical, environmental and socio-economic benefits involved in using Concrete Block Paving (CBP) for township and rural road developments. Minimum skill and equipment is needed for the laying of the Blocks.

When considering the impact on the socio-economic circumstances of previously disadvantaged communities, projects that aim to create employment opportunities within a community and facilitate the involvement of the community should be adopted. This creates a Multiplier Effect of the revenue which is retained in the community. This means that money paid to residents is spent and re-spent within the community, thus providing increased growth of small enterprise and so substantially improving the quality of life for those residents.

JOB CREATION AND ILLUSTRATION

As part of a "Job Creation" programme, the communities of Phuthaditjhaba and Bela Bela (both urban villages with populations less than 25 000) were given the opportunity to create a sustainable approach to job creation through the upgrading of the roads in their areas. Teams were trained to

manufacture blocks and other teams to lay them. The bulk of the manufacturing was done on-site, with the shortfall being supplied by Lancaster Precase.

The programmes have proven to be very successful and many people have been employed for over two years. Marketable skills have been developed and many people have moved on to use their newly-acquired skills in their own businesses.

Why was Concrete Block Paving (CBP) chosen as the surface medium?

- Labour intensive
- Job creation
- Skills transfer
- Contractor development (several emerging Contractors are managed by a Project Manager)
- Low maintenance
- Environmental issues (the original gravel road was harsh on riding quality, dust pollution, vehicle damage and maintenance)
- Considerable reduction in tyre spray from behind moving vehicles
- Skid resistance enhanced

Concrete Block Paving (CBP) roads have many advantages over tar roads, creating an infrastructure that carries the traffic at an acceptable level of comfort and safety and built at an acceptable cost. No less, however, are the socio-economic benefits can be create for sustainable development for communities.



QUOTES FROM PEOPLE INVOLVED IN PAVING:



"Paving has changed my life. I was unemployed for more than five years and a friend said I should come and register for paving. For the first time, I was able to buy food for my family. I know at the end of this project, I will be able to start my own business." - Site employee, Soweto.



"I am one of the people who was involved in paving Bela Bela. Today, I have my own business. I am using stones, unused bricks or whatever I find useful for paving people driveways." - Small constructor, Bela Bela.

"The use of Paving Blocks as part of the incentive (while supporting EPWP) has improved the lives of Veterans and some of them are being included in SMME projects. This will enable them to work with gurus in paving. Thanks to PM Ember for making sure that this project was implemented successfully." - Niki Nkenene – Veteran co-ordinator, Culture, Heritage and Legacy Project.



"It brings joy to my heart to see what I have done with my own hands for my community." - Site employee, Soweto.





PAVING MEMBERS (FEBRUARY 2009)

PRODUCER MEMBERS

Bafokeng Concor Technicrete	014 538 0818
Baybrick	035 792 5218
Bosun Brick Midrand	011 310 1176
Brick & Concrete Industries (Namibia)	0026 461 321 3009
Brickcast Industries	031 507 5525
Brickbuild T/A Panda (Botswana)	0026 724 42106
Cape Brick	021 511 2006
C.E.L. Paving Products	021 905 5998
Cast Industries	011 316 2375
Columbia DBL	021 905 1665
Concor Technicrete	011 495 2200
Concor Technicrete P.E.	041 372 2230
Conframat	016 987 3381
Corobrik	031 560 3911
Deranco Paving	041 933 2755
Inca Concrete Products	021 904 1620
Inca Masonry Products	043 745 1215
Infrasat Gauteng	011 652 0000
KZN	031 569 6900
Kopano	016 363 0340
Mobicast Mossel Bay	044 874 2268
MVA Bricks	012 386 0050
Neat Contech	046 624 3377
Stanger Brick & Tile	032 457 0237
Stone Age Concepts	011 740 0910
Vanstone Precast	012 541 2056
Watson Concrete	011 704 0910
West End Bricks	011 851 1828
Zenzele Brix	012 803 6884

ASSOCIATE MEMBERS

Inca (Cape)	021 904 1620
Smartstone	011 310 1161

CONTRACTOR MEMBERS

Daron Construction	034 955 1333
Galaxy Paving	011 815 1175
Mondo Paving & Retaining Walls	011 467 1111
PYW Paving	031 763 5771
Roadstone Civil & Paving	011 683 7080
S A Paving Gauteng	031 705 5123
The Paving Creations	031 765 4083
Vesles Civils	012 662 3030/1
Valcal International	011 867 2471



**CONCRETE
MANUFACTURERS
ASSOCIATION**
Quality cast in concrete

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