



CHIPPY™

THE HAND OPERATED
CHIP SPREADER

LABOUR BASED ROAD SURFACING

National Cold Asphalt introduced the manually operated chip spreader, or Chippy as it has become known, for the application of road stone aggregates during 2004. This manual or labour based method of road surfacing is now well proven and is being used very successfully in the upgrading of gravel roads to surfaced standard, as well as in the application of single and double seals for new roads and for maintenance of existing road networks. Depending on the nature of the project, up to 65 job opportunities are created around the surfacing process alone. What is of great significance is that roads where previously surfaced using very specialised mechanical equipment requiring highly skilled operators, thus leaving very few opportunities for employment creation for local unskilled people. The Chippy method is very suitable for use by local authorities for maintenance programs and in-house teams can be trained to use the equipment and methodologies.



- **Build infrastructure.**
- **Create sustainable employment.**
- **Save on capital expenditure.**
- **Provide a fast track service delivery with proven results and healthier communities.**

The Chippy furthermore creates opportunities for smaller contractors to participate in the road surfacing arena without having to lay out the large capital amounts required for conventional equipment. This enables them to be completely independent from large companies who own the expensive road surfacing equipment. Deon Pagel (who designed Chippy) says National Cold Asphalt has received many accolades and recognition for this development throughout the industry, including the Southern African Bitumen Association "Award for Excellence".



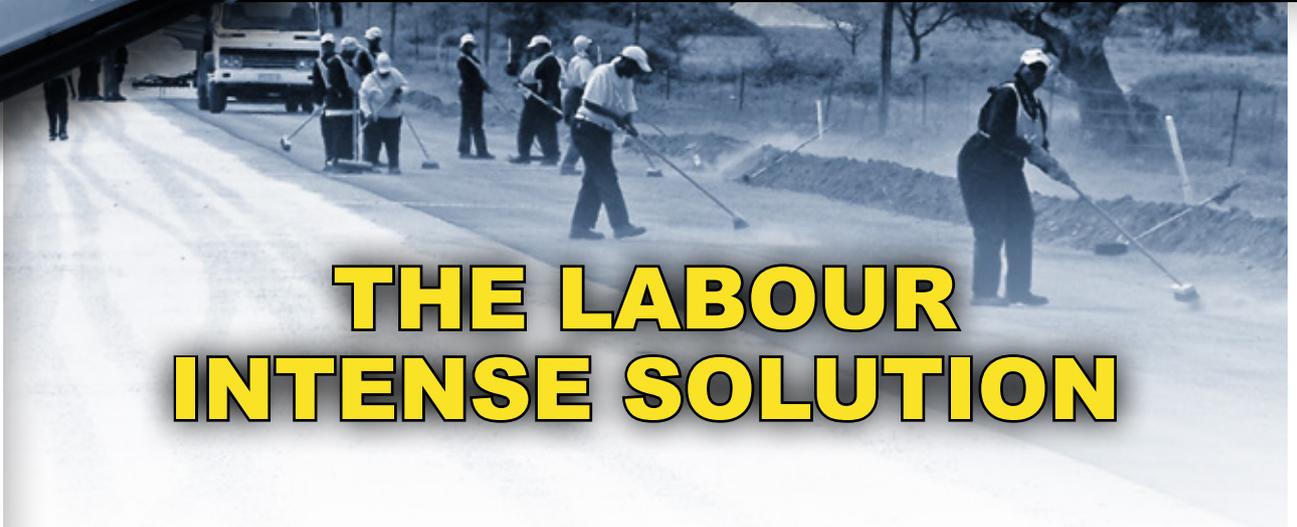
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THE LABOUR INTENSE SOLUTION

The "Chippy" chip spreader is the most qualified, cost effective, labour intensive application for black topping of gravel and rural roads as well as to reseal existing asphalt road networks. Several skills levels of employment are created within the local community to create a micro economy that is self-sustaining and one which positively effects all members of the community both directly and indirectly. Our "Chippy" methodology appeals directly to national government's call for private sector partnerships and mentorship programs that create sustainable jobs that up skill our labour force for the long term benefit of society as a whole.

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