



SAMI SOLUTIONS

Hot In-Place Asphalt Recycling Burwood Council



Hot In-Place Asphalt Recycling Solution No. 2

Successful debut for new road recycling technology



One of the advantages of HIPAR for local road maintenance is that it minimises the inconvenience to residents.

Burwood Council is one of the first in Australia to trial an innovative new road maintenance technique which completely recycles the existing asphalt and restores the road surface back to its original condition.

The new process — Hot In-Place Asphalt Recycling (HIPAR) — is carried out by a mobile recycling unit which heats, removes, modifies, relays and compacts the asphalt surface in a single pass.

The result is a recycled asphalt pavement which exhibits the same properties as a totally new asphalt pavement and can be immediately

opened to traffic, minimising delays to the public.

Commenting on the new technology, Burwood Council's Director of Engineering Services, Stephen Joannidis, said: "It is a very environmentally-friendly approach to road maintenance. Traditionally, resurfacing involves placing a new 25 mm thick layer of asphalt over the existing pavement.

"However, when the pavement is getting too thick or it is badly damaged, we need to mill the existing surface off before we place the new material," he said.

"This not only adds to the cost of the process and causes additional disturbance to residents and road users, it also creates a waste disposal problem. We are able to reuse small quantities of the material in our roadworks, but larger quantities have to be disposed of in a landfill.

"Using a technique which recycles and reprofiles the existing asphalt eliminates the need for new material and any disposal problems.

"The fact that the process also offers a small cost benefit over conventional resurfacing techniques is an added bonus," he said.



The banks of heaters in front of the HIPAR machine soften the asphalt in readiness for recycling.

Burwood Council Mayor, Clyde Livingstone, said he was very supportive of the new technology. The performance of the trial suburban roads resurfaced section with interest, "he said.

"It certainly appears to be an economically and ecologically sustainable way of maximising the value of our existing roads, which have already been paid for by the community, and we will be monitoring

The HIPAR project involved recycling 1600 square metres of pavement in Nicholson Street as part of the Council's Scheduled Road Maintenance Programme, which, this year, has seen more than 26,000 square metres of the municipality's 680,000 square metres of

HIPAR is offered as a complete design and construction package by SAT, a joint venture between Sydney-based SAMI Pty Limited and the German developer of the HIPAR process, Schmitt Asphalttechnik GmbH.

This Case Study has been produced with the kind assistance of Burwood Council.



For larger areas, SAT has a HIPAR machine which can recycle and pave up to 4.5 m wide in a single pass. The application above shows Moore Park Road, outside the Sydney Football Stadium, being recycled using the HIPAR process on behalf of South Sydney Council.



For further information on any of the products featured in this Case Study or any of SAMI's other specialist road maintenance products and services, please contact:
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