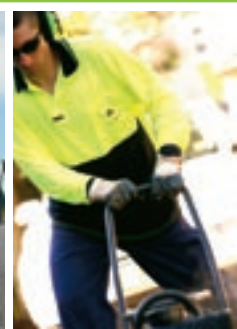




Greenpave
SAFER GREENER ASPHALT



Lower CO₂ emissions • Safer • Reduced energy consumption • Improved productivity





Australia's most environmentally conscious asphalt provider is now the first company in Australia to offer a climate sensitive alternative to traditional hot mix asphalt: Citywide **Greenpave**, an advanced new warm asphalt mix produced in partnership with Shell.

Citywide **Greenpave** responds directly to the huge groundswell of community and government concerns over climate change. We are proud to deliver a product to the Victorian market that is safer and has significantly less environmental impact than standard mixes.

The advanced production process makes asphalt with properties equal to traditional hot mix asphalt while offering significant add-on benefits. This is the future of asphalt in Australia.

Technology

Welcome to the new generation of asphalt manufacturing. The conventional hot mix asphalt process uses one grade of bitumen at approximately 170°C but **Greenpave** uses two binders at significantly lower temperatures (~110°C). Combined application of the binders results in bitumen with the same performance as standard hot mix.

Environment

Traditional asphalt mixes for road making are heated to 160°C-170°C for fluidity and workability. **Greenpave** is manufactured at only 110°C-120°C, a reduction of up to 60°C. This leads to substantial environmental benefits:

- > Over 30% reduction in fume emissions during production
- > Over 30% reduction in greenhouse gases
- > Up to 55% reduction in fine dust
- > Energy savings of up to 30%



Safety

The reduction in production temperatures and fumes deliver immediate safety benefits to workers and community members, because:

- > Employee exposure to heat and fumes is reduced
- > Fumes and emissions are reduced in inner city communities

Performance

Warm asphalt mix has been used successfully around the world under a variety of climactic conditions since 1995. Unlike hot mix which is susceptible to weather conditions, **Greenpave** offers greater workability and therefore a longer construction season. It is subject to less oxidative hardening of binder leading to better fatigue performance over time, and layers can be paved thicker offering:

- > greater productivity
- > operational savings
- > a rapid return to traffic

Citywide personnel have undertaken extensive research on the product including visits to production sites and laboratories in France and Norway.

Australia's Greenest Asphalt Plant

In February 2008, Citywide reopened its North Melbourne Asphalt Plant, now Australia's most environmentally sound facility.

The new plant design incorporates cutting edge pollution control, noise reduction and dust extraction technologies. It will also provide our customers with **Greenpave**, Recycled Asphalt Product (RAP) and improved delivery and invoicing systems.

Citywide's North Melbourne plant is the city's most centrally located, just minutes from the CBD. In addition to technologically driven benefits, the short transport routes needed to supply asphalt reduce the time our trucks are on the road. The outcome: less emissions and congestion.

Experience Greenpave

Citywide has laid **Greenpave** for a number of metropolitan councils. We offer all existing and new customers the opportunity to view our state-of-the-art production facility and the finished road. Experience firsthand the benefits of low temperature, low emission and durable asphalt.

Contact Citywide on (03) 9261 5000 and book in a time to experience **Greenpave**.



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