

Reconophalt™

The first choice to sustainably pave Australia

Downer's Reconophalt™ is Australia's first asphalt product containing high-recycled content derived from true waste streams that would otherwise be bound for landfill.

Materials that make up our Reconophalt™ mixes include:

- Soft and scrunchable plastic bags and packaging
- Waste glass destined for landfill or indefinite stockpiling
- Waste toner from used printer cartridges
- Reclaimed asphalt pavement (RAP) from end-of-life roads
- Crumb rubber from end-of-life tyres
- Coarse aggregate and sands from street sweepings.

Materials are sourced through Downer's exclusive partnerships with Close the Loop, Repurpose It, Downer's own detritus re-purposing facilities, and other suppliers of recycled resources.

Downer is able to vary the mix constituents and proportions of Reconophalt™ to suit our individual customers and their local road surfacing needs. For example, Reconophalt™ 436 uses four recycled ingredients at 36% by weight, while Reconophalt™ 886 includes eight recycled materials making up 86% by weight.

A one-kilometre, two-lane road paved with Reconophalt™ 436 will divert from landfill:



101 thousand glass bottle equivalents



597 thousand plastic bag equivalents



17.4 thousand printer cartridges



202 tonnes recycled asphalt pavement

Creating a saving of:



8.08 tonnes carbon dioxide equivalent



equivalent to 3 cars off the road for one year

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Downer's Reconophalt™ is suitable for any application where standard C170/C320 binder is specified, for underlying base layers, and non-modified wearing course asphalt.

Pavement construction using Reconophalt™ is as per traditional methodologies, using standard paving equipment, with **no increased environmental risk** compared to traditional asphalt.

Reconophalt™ mixes comply with AS2150 and standard state road authority specifications, while providing a marked increase in fatigue resistance for longer pavement life and superior resistance to deformation.

Did you know?

300,000 tonnes

of Reconophalt™ has paved roads across Australia since May 2018

Reconophalt™ is **perpetually recyclable**

Increased asset life

can be achieved, with performance better than straight-binder asphalt derivatives

The superior performance of Reconophalt™ is suitable for reduced pavement thickness

reducing cost



Reconophalt™ Environmental Product Declaration

Downer's world-first Environmental Product Declaration (EPD) for sustainable asphalt, developed in accordance with ISO 14025 and EN 15804, is available for download at:

<https://epd-australasia.com/epd/reconophalt/>