

Close the Loop Group

TonerPlas®

If not — why not?

Your Roads. Your Waste. Your Innovation.

A call to action for Australian Local Councils — June 2026

An Australian First. Already in Your Region.

TonerPlas® is a **dry method Asphalt Additive** engineered entirely from Australian recycled waste — soft plastics, toner powder from spent printer cartridges, and recycled oil.

It has been used on Victorian roads since 2018. It is not a pilot. It is not a concept. It is already in the ground in your region, performing under real traffic, in real weather, tested to Australian standards.

2018

First Road Laid
Hume City Council, Victoria

30+

Councils Nationally
Across most Australian states

DTP

Approved (Victoria)
ATM 458 compliant.

Eight Reasons Your Council Should Be Using This



Circular Economy

Plastic waste + toner
back into your roads



Low Carbon

Supports Scope 3
reduction reporting

AU

Sovereign Supply

Australian-made, not
petroleum-import



Better Roads

Independent testing
shows 60% less rutting



No Extra Cost

Taking whole of life
costs into consideration



Regulatory Approved

DTP approved. ATM 458
compliant. Roads since
2018.



Local Innovation

Patented Australian IP.
Close the Loop,
Melbourne.



Proven Partners

CPB, Downer, Alex
Fraser, Asphalttech &
more

The Performance Data

Independent testing under Australian and international standards confirms that TonerPlas® does not compromise pavement performance — it improves it:

Test	Result	Standard
Wheel Tracking (Rutting)	4.8mm → 1.9mm — 60% improvement	AS/NZS 2891.18
UV Fluorescence Dispersion	9.2/10 — confirmed homogeneous dispersion	ISO/IEC 17025 (ExcelPlas)
DSR Rheology	Enhanced stiffness + reduced phase angle at 10–16% substitution	AS/NZS 2341.26
ATM 458 Compliance	Confirmed compliant. DTP-approved for use on Victorian roads.	Edition 1.1, May 2025
DTP Approval (Victoria)	In place — in service since 2018	Department of Transport

Proven on Australian Roads — Near You

TonerPlas® has been incorporated into roads across Australia. These are not trials — these are standard road construction and maintenance programs delivered by Tier 1 contractors under normal specifications.

The First: Hume City Council — 2018



Hume City Council, 2018 — Australia's first TonerPlas road

2018 — Hume City Council

The first TonerPlas road in Australia was laid in Hume City Council in 2018 — marking the commercial debut after years of development and testing. This road has been in service for over six years under real Melbourne traffic conditions and remains the anchor proof point for long-term durability. Hume was the pioneer. Every council that has followed owes something to their willingness to back Australian innovation first.

"Nothing gets recycled until someone buys and uses recycled content products."
Steve Morriss, Co-Founder and Head of Circular Economy, Close the Loop Group

Ongoing: City of Boroondara — Multiple Roads Since 2018



Manningham City Council — ongoing road maintenance program

2018–Present — Manningham City Council

Manningham has incorporated TonerPlas into its road maintenance program across multiple streets since 2018. Their ongoing use signals confidence from a council known for rigorous technical standards. Manningham’s continued specification of TonerPlas reflects responsible procurement: a product that delivers performance, sustainability, and value, year after year.

Full Program: City of Darebin — Recent

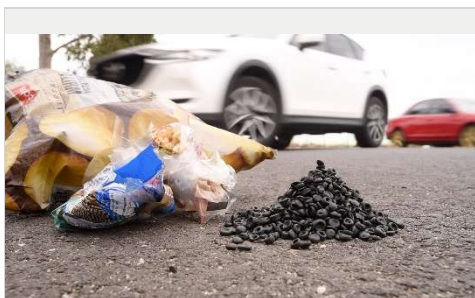


City of Darebin — full road program incorporating TonerPlas

Recent — City of Darebin

Darebin has recently confirmed a full program of road works incorporating TonerPlas — not a single trial street, but a systematic rollout across multiple roads as part of their standard maintenance and renewal program. This is what scaled adoption looks like: measurable recycled content, carbon reduction, and performance benefits delivered across an entire road asset base.

Growing Network: Brimbank City Council



Brimbank City Council — TonerPlas road program

Ongoing — Brimbank City Council

Brimbank City Council has incorporated TonerPlas into its road program, joining a growing network of metropolitan Melbourne councils committed to building better roads from recycled Australian materials. Brimbank’s adoption reflects a practical, outcomes-focused approach to sustainability — delivering measurable recycled content and carbon reduction benefits without compromising road quality or council budgets.

Regional Leadership: City of Greater Bendigo

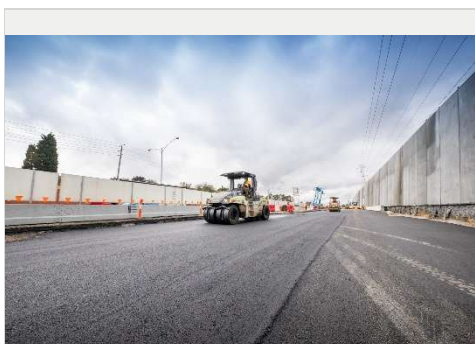


City of Greater Bendigo — TonerPlas in regional Victoria

Ongoing — City of Greater Bendigo

The City of Greater Bendigo has incorporated TonerPlas into its road network, demonstrating that the benefits of this Australian innovation are not limited to metropolitan councils. Bendigo's adoption is significant: it shows that a regional council, managing a large road asset base across diverse conditions, can confidently specify TonerPlas as part of its standard road maintenance program.

Major Infrastructure: Monash Freeway and M80 Ring Road Upgrades



M80 Ring Road Upgrade and Monash Freeway — TonerPlas at freeway scale

Recent — Monash Freeway & M80 Ring Road

TonerPlas has been incorporated into two of Melbourne's most significant freeway upgrade projects, delivered by CPB Contractors. These represent the highest-load, highest-scrutiny road infrastructure in the state. Performance under freeway loading on the Monash and M80 demonstrates that TonerPlas is well-suited to the full range of road conditions — from local streets to major arterials.

The Carbon and Circular Economy Story

Every tonne of typical council road asphalt containing TonerPlas® diverts approximately the equivalent of **1,000 soft plastic bags**, toner powder from **30 cartridges**, and **1 litre of recycled oil** from landfill. At road program scale, that adds up fast.

Circular Economy

- Soft plastic waste — the hardest to recycle — becomes road infrastructure
- Toner powder from spent cartridges diverted from landfill
- Australian waste streams processed and returned to Australian roads
- Independently verifiable and traceable to source waste streams
- Asphalt containing TonerPlas® is compatible with standard RAP recycling processes²

Carbon Reduction

- Independent testing indicates improved rutting and crack resistance — consistent with longer service life and lower maintenance frequency
- Displaces virgin petroleum bitumen — a high-embodied-carbon material
- Supports council Scope 3 emissions reporting for road programs, calculated using published emissions factors
- Contributes to circular economy procurement and sustainability mandates
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**It's your decision. Ask your asphalt suppliers to use
TonerPlas® in your Roads.**

TonerPlas® is not a future technology. It is helping to make better roads today, in councils across Australia. The question is not whether your community's roads will benefit from this innovation — it is when.

Contact Close the Loop to get TonerPlas® into your road network.

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For discussion purposes. Performance data from independent laboratory testing and field use since 2018. Cost savings subject to mix design and current bitumen pricing. | closetheloop.com.au | Australian-owned. Melbourne-made.