



# EnviroBase

Emulsion stabilisation

## Product insights guide

March 2026

Road   
Science

# Strengthen pavements

EnviroBase is a stabilising bitumen emulsion designed to waterproof, strengthen, and extend the life of granular pavements. It can be used alone or with other stabilising agents and ensures the dry strength properties of the pavement are retained all year round.

Ideal for area-wide construction, unsealed roads and patch repairs, EnviroBase is a versatile product which enhances pavement resilience.

## PROPERTIES



## USED FOR



Waterproofing



Rutting



Cracking



Dust Reduction



Pot Holes

## ENVIRONMENTS



Industrial



Motorway



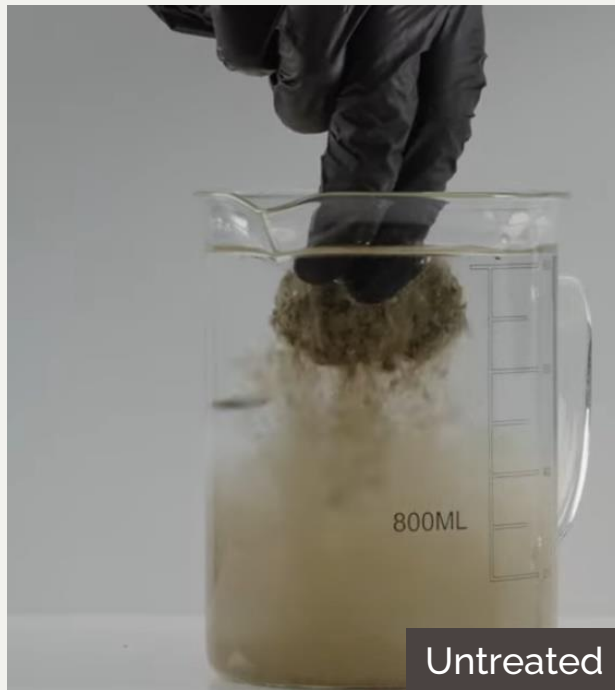
Rural



Residential

# EnviroBase benefits

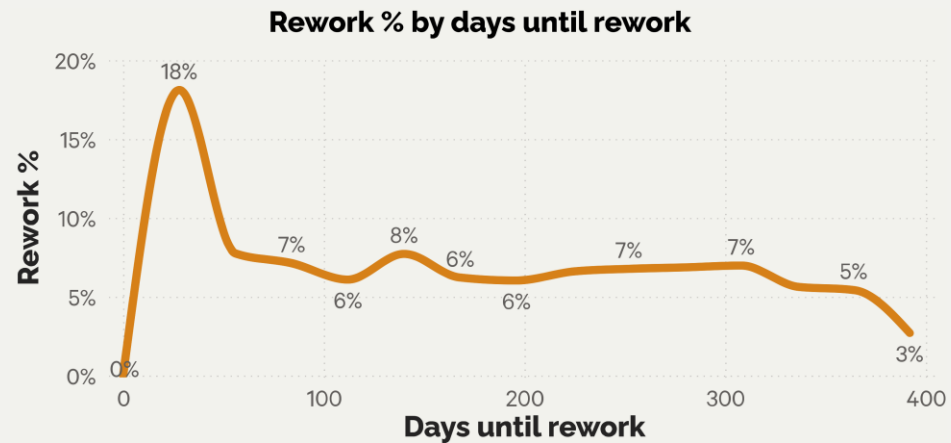
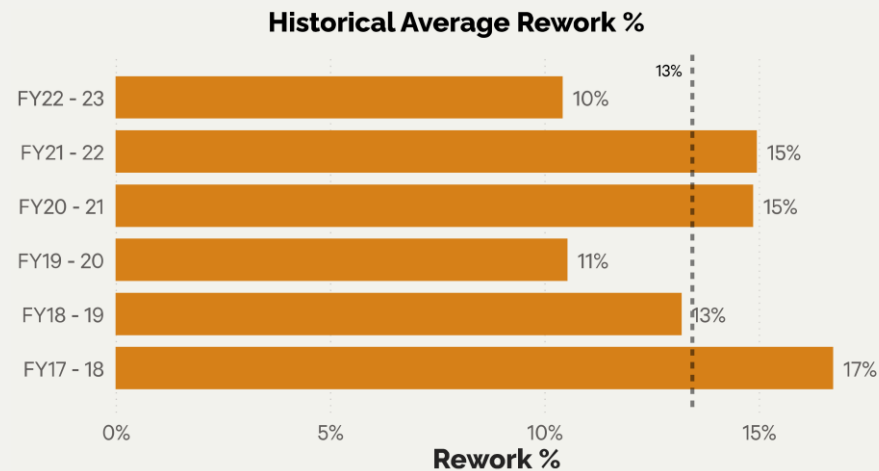
- Enhanced wet strength of granular material
- Dust reduction
- Year-round usability
- Crack prevention
- Pothole prevention
- Early patch failure prevention



# Historical trends on cemented patches

There has been an average of 13% rework rate within the first year using cement-stabilised patching.

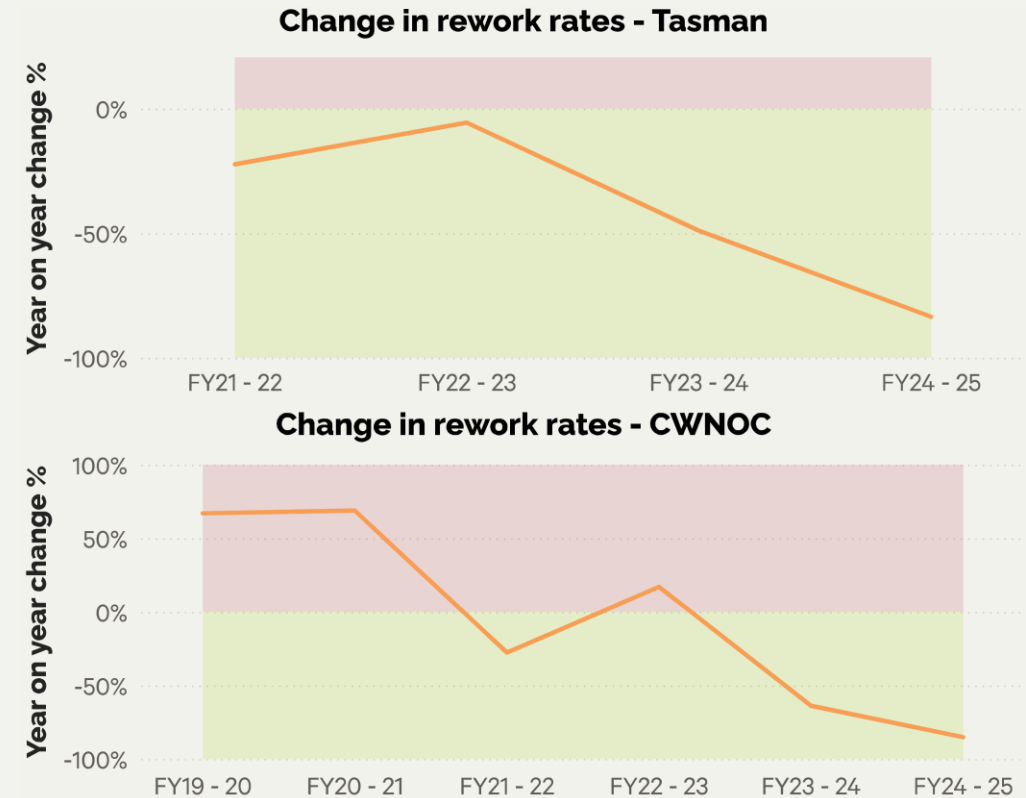
Plotting the distribution of the average rework time over six years reveals a critical trend: a significant portion of failures occur within the first 28 days. Almost one in five cement patches that fail within a year do so within this initial period, highlighting an early-stage vulnerability in the material or application process.



# EnviroBase performance

These year-on-year rework rate trends show consistent improvements in both networks (CWNOC + Tasman DC). Since the implementation of emulsion stabilisation, rework rates have steadily declined each year, highlighting the effectiveness of this approach.

Adoption of cement and emulsion stabilisation on CWNOC has led to a significant 64% reduction in rework compared to the previous year, demonstrating the effectiveness of this combined approach. Similarly, Tasman DC experienced a 22% reduction in rework within the first year of adopting emulsion stabilisation, with continued year-on-year improvements.



*NB: This analysis uses a two-year window - Year one accounts for initial patching and year two accounts for potential reworks occurring within a years' time. As such, FY23 - 24 and FY24-25 are not fully represented in the data set.*

# Performance highlights



**Reduced risk of fatigue  
+ cracking**



**Maintains pavement  
strength across varying  
moisture conditions**



**Superior performance**

View full technical report here: [Emulsion Stabilisation – The road to better repairs](#)



# EnviroBase

“ If you were to ask me what we should be doing for stabilisation patch repairs, I'd recommend using EnviroBase emulsion. ”

**Downer**

**Oliver**

Road Maintenance Site Supervisor  
- TREC

# Key contacts

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