



Enviro Base

Enviro Base is a Stabilising Bitumen Emulsion designed to be added to Granular Pavement Construction

Enviro Base introduces bitumen into the granular material which reduces the risk of rutting and potholing in wet weather by waterproofing granular base materials.

Where to use Enviro Base

- Patches
- Granular construction
- Dig-out's and pavement repairs
- Granular overlays for pavement renewal
- Stabilisation

Helps to resolve these problems:



Benefits:

- Will improve wet strength of granular material
- Will provide a hydrocarbon key to assist the bonding of seal coats.
- Will help reduce the level of dust emitted from the construction site.
- Can be used all year round
- Does not require cement or lime thus eliminating the risk of cracking as it remains flexible
- Help prevent potholing
- Help prevent first coat seal failures

Habitat



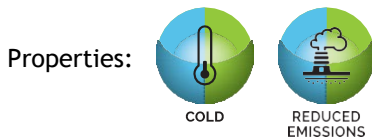
Specification

Typical properties of Enviro Base:

Property	Method	Specification
Binder content	ASTM D36	60% min

Health & Safety

Enviro Base is a non-hazardous product which should be handled in accordance with Industry Code of Practice for the Safe Handling of Bituminous Materials. In the event of a spill. Contain with sand or a suitably absorbent material and prevent access to water ways and drains.



Handling

Enviro Base may be stored and pumped at ambient temperatures for up to six months. Do not expose to direct sunlight or allow to freeze.

Settlement may occur in containers over time which can be remedied by gentle stirring/ circulation or regular rotation of storage containers.

Method

Heating

Enviro Base does not require heating.

Mix Design Process

Perform wet AND dry RLT (NZTA T15) on stabilized material.

Where the average deformation slope for the first five stages for the wet RLT is less than or equal to the dry average permanent deformation slope for the first five stages. In addition, the RLT life prediction must exceed the design traffic MESAs.

Construction

- Enviro Base is designed to be added during the stabilization process in accordance with the;
- NZTA B/5: 2008: Specification for in-situ stabilisation of modified pavement layers

Equipment

Enviro Base can be applied using most standard stabilisation equipment.

Storage units used for holding Enviro Base must be clean from contamination. Rust or other contaminants will cause the emulsion to break and form bitumen lumps.

Rate

General guidelines are:

For M/4 compliant aggregates, residual bitumen content of 1.5% by mass is required (2.5% wet addition rate) to achieve an improvement in waterproofing without effecting material properties.

Compaction

Traditional compaction techniques are satisfactory

when adding Enviro Base, however:

- If higher than recommended application rates are used, pick up may occur requiring roller drums or tires to have water applied

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