



Enviro[®] Prep

Enviro Prep is a Stabilized Bitumen Emulsion Designed to be added to water Product used during Granular Pavement Construction

Enviro Prep introduces bitumen into the granular material which can assist the stability of the material, reduce the risks of cracking, enhance bonding with surfacing layers and increase productivity.

Where to use Enviro Prep

- Granular construction
- Dig-out's and pavement repairs

Enviro Prep can assist most granular construction operations by reducing damage from traffic stress, reducing construction times and enhancing pavement strength.

Helps to resolve these problems:



WATER PROOFING



LIFE EXTENSION

Benefits:

- Will help bond granular materials, reduce segregation and make construction times faster.
- Will provide a hydrocarbon key to assist the bonding of seal coats.
- Will help hold a mosaic surface and assist in reducing damage from traffic stress. This negates the need to provide a fatty surface to resist traffic which causes early seal failure.
- Will improve resistance to rain damage.
- Will improve resistance to shrinkage or deflection cracking.
- Can be used in conjunction with other stabilising agents.
- Will help reduce the level of dust emitted from the construction site.

Habitat



Residential



Rural

Specification

Typical properties of Enviro Prep

Property	Method	Specification
Binder content	ASTM D36	60% min

Health & Safety

Enviro Prep 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.

Properties:



Handling

Enviro Prep 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.

Diluted product should be used within 2 days.

Heating

Enviro Prep does not require heating.

Application

Enviro Prep can be used all year round.

Method

Enviro Prep:

- Enviro Prep is designed to be added with the water during the granular construction process.
- Typical dilution rates vary from 5/1 to 20/1 depending on the ability of the granular material to absorb the bitumen.
- Emulsion can be pumped or poured directly into the water cart.

- Adding part way through the water filling process will assist with mixing
- Circulation or physical movement of the water cart will generally create sufficient mixing
- Enviro prep should not be applied if rain is imminent.

Equipment

Enviro Prep can be applied using most standard granular construction watering methods.

Water carts and storage units, used for holding Enviro Prep, must be clean from contamination. Rust or other contaminants will cause the emulsion to break and form bitumen lumps.

Rate

Application rates are specific to each individual material and the outcome that is desired. General guidelines are;

Residual bitumen content of 0.25% is required to achieve an improvement in bonding.

- Typical levels used range from 0.2% to 0.5% residual bitumen by weight of aggregate.
- A residual bitumen content of 1% in the top 25mm of the granular material, will greatly assist in improving its resistance to traffic damage and help bond the seal coat

Aggregates with low fines content will absorb the diluted Enviro Prep at a much lower dilution ratio than aggregate containing high fines content.

Compaction

Traditional compaction techniques are normally satisfactory when adding Enviro Prep, however:

- If high application rates are used, pick up may occur requiring roller drums or tires to have water applied
- If the granular material has high clay content, it may take longer to achieve full compaction, due to the entrapment of moisture in the soluble fines.

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