



TECHNICAL INFORMATION ECOTRAX

ABOUT ECOTRAX:

EcoTrax is a modified bitumen emulsion used as a hydrophobic binder for road base material.

Unlike many existing grades of bitumen emulsion, EcoTrax is used at room temperature and mixes readily with all water types (soft, hard, bore, salt water). Thus no special application equipment is required.

Characteristics

When adding water to the road material to bring it to Optimum Moisture Content, blend the EcoTrax with that water. When the water evaporates and the material dries, a bitumen film is left to adhere to the road material, particularly the fine grade material.

The bitumen will not mix with water. The combination of this water repelling and binding effect of the bitumen on the road material upon compaction creates a road base layer that isn't affected by moisture. Therefore reducing potholes and maintenance.

APPLICATION OF ECOTRAX:

Pre mixed at Quarry

EcoTrax can be pugged or pre-mixed at a quarry and be stock piled for up to two months. When required for use, simply add water to bring to Optimum Moisture Content, deliver to site, shape and compact.

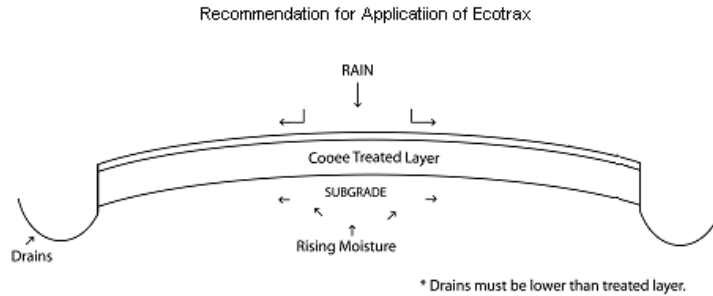
In situ

When treating in situ material on a road, driveway or yard prepare the area as you would normally. The application of EcoTrax into the blending of road material requires no extra or special equipment.

Instructions for typical material

1. Rip the road surface to 100mm minimum or the depth required.
2. Add EcoTrax to the water in the water truck that would have been used to bring the road material to Optimum Moisture Content.
3. Use this dilution in the water truck to spray the ripped surface evenly .
4. It is best to add the EcoTrax to the first load of water so any residue will be rinsed out as further water is applied.
5. The general measurement is 2L of EcoTrax concentrate treats 1 m² surface area to a depth of 100mm. (ie. 20L EcoTrax to 1 cubic metre of soil) Ensure that the entire amount of product is evenly spread throughout the road material mix.

6. Compact as usual.



ADVANTAGES:

- No heating required.
- No special equipment needed or extra steps in usual maintenance work.
- Cooee's emulsion, being water-based, has obvious environmental and safety advantages.
- The emulsion is designed so that it can be used easily through conventional spraying equipment.

Environmental Advantages

- The hydrophobic property of EcoTrax eliminates leaching issues.
- EcoTrax emulsion contains water and is further diluted with water during use.
- EcoTrax is applied at room temperatures. Vapour which surrounds the spray equipment and the crew operating it is mainly water.

TEST RESULTS:

Nata Lab tests have shown:

- (a) Reduction of Water Ingression - a 100 fold reduction in water permeability was achieved in Permeability Tests
- (b) Increased Strength - a 58% increase in CBR was achieved in soaked CBR tests on 2.1 and 2.5 grade quarry materials.

Full copies of test results are available at <http://www.cooeeproducts.com.au/>

METHOD OF USE:

EcoTrax is supplied in 20L, 200L and 1000L or bulk containers.

EcoTrax can be diluted at varied rates with water to suit the application.

The dilution should take place in the spray tanker, with water being added first.

CLEANING:

Spray Truck - Pumps, spray bars and jets should be flushed out with water immediately at the end of operations or where there is any delay in the progress of the work. Drainings should be contained as per local shire environmental regulations.

Hand-Operated Machines - Breaks in spraying should be accompanied by flushing of the spray with water to prevent blockage. At the end of the operation, it is good practice to empty completely the contents of the container, flushing with water by continuous circulation followed by draining should then take place. Drainings should be contained as per local shire environmental regulations.

For further information see MSDS Data Sheet available at www.cooeeproducts.com.au