



TECHNICAL INFORMATION DUSTBLOC

DustBloc is a combination of bitumen emulsion and Cooee's FT50 additive. The FT50 additive enables the bitumen to easily mix with all water types (soft, hard, bore or salt water) at dilutions that allow DustBloc to soak into the ground. When the water and additive evaporate a thin coating of bitumen is left on the particles. No special application equipment is required.

DustBloc is safe to users and the environment. All ingredients of DustBloc are non-toxic and the product is non-hazardous according to the criteria of Worksafe Australia.

CHARACTERISTICS:

DustBloc can be readily diluted with water. Most applications are between 40:1 and 80:1, however the product can be diluted to any level and one client has found that 120:1 suits their requirements.

The two most important characteristics of DustBloc are that it can be diluted to these levels that allow it to soak into a road surface rather than sitting on top of the surface. Secondly, when the water evaporates taking the additive with it, the remaining bitumen will not mix with water again. This means the product does not wash back out and gradually builds up in the surface material.

This creates two effects. Firstly it binds the road together stopping any dust and secondly when the surface is broken up by traffic creating some dust, the particles are heavier and less likely to become airborne.

ADVANTAGES:

- Sites using DustBloc are showing water savings between 60% and 90%
- Improved road condition especially during wet periods
- Increased safety due to improved roads and less watering
- Environmentally safe
- The emulsion is designed so that it can be used easily through conventional water trucks and spraying equipment

ENVIRONMENTAL ADVANTAGES:

- Safe to users and the environment.
- All ingredients are non-toxic.
- DustBloc is classified as non-hazardous according to Worksafe Australia.
- DustBloc contains water and is further diluted with water during use.
- Hydrocarbon Leach tests conducted on the treated areas showed zero leaching.
- Reduced water usage and as a consequence less truck usage.

METHODS OF USE:

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

Most applications are between 40:1 and 80:1 dilution in water. On very compacted surfaces two coats are recommended when starting the dust control process to "prime" the area. Areas where there is very loose uncompacted material will require greater dilution and more frequent applications to wet all of the material so it can be compacted. The product will not work if compaction can't be achieved. It will form a layer on the surface that will be broken by traffic.

Repeat applications are required to achieve a suitable level of dust control.

The diluted product should be sprayed at a rate of 1lt. diluted product to 2-4 m² surface area. Thus, 1lt. of supplied DustBloc will provide coverage for 80-160 m² surface area when diluted with water.

The dilution of DustBloc with water takes place in the spray tanker, with water being added first.

SAFETY:

GENERAL

Cooee DustBloc is a suspension of finely divided bitumen particles in water. There is no evidence to suggest serious health hazards associated with its use. DustBloc is non-flammable and is applied and transported at room temperature.

SAFE HANDLING

Contact with the skin should be avoided by the use of protective clothing, suitable gloves and rubber boots. When the product dries it is pure bitumen so if contact is made with skin, wash immediately with cold water to remove before it sets. Solvents should not be used for the removal of residual material from the skin since they may themselves cause irritation. General hand cleaners will remove the product if necessary.

Eyes should be protected from splashes of DustBloc droplets by the wearing of suitable safety glasses or goggles. Where the eyes are accidentally splashed with emulsion they should be irrigated thoroughly with cold water and medical advice sought.

STORAGE:

BULK STORAGE

Clients with medium to high usage of DustBloc can be provided with storage and pumping facilities. Attached photo showing DustBloc storage tanks and pump at a mine site.



Smaller quantities are delivered in 1000 litre IBC containers and 205 litre drums.

CLEANING:

SPRAY TRUCK - Pumps, spray bars and jets should be flushed out with clean water immediately at the end of the DustBloc application. The water truck is refilled with clean water and sprayed onto a suitable area.

HAND-OPERATED MACHINES - Breaks in spraying should be accompanied by flushing of the spray with water to prevent blockage.

It must be remembered the end product is bitumen and as much as the product is easily rinsed from inside the truck and pumps it is harder to remove from the exterior of the truck where it has been exposed to air and set.

Even though the product presents no danger, all steps should be taken to avoid spillage on the outside of the water truck.

For further information see MSDS Data Sheet available at www.dustbloc.info.