

Technical Data Sheet TDS 003 — Dust Suppression Guidelines

DUST SUPPRESSION GUIDELINES

Description

SOILBOND A02 is a naturally derived water-based organic emulsion that can be used as a spray on dust suppressant and dust control solution. With regular topical applications of low diluted solution, the fine particles of the unsealed road surface are bound hence reducing dust emissions considerably.

SOILBOND A02 dust suppressant provides cost-effective dust control and significant water savings when incorporated in a maintenance program made of on-going applications.

Key properties include:

- Extended workable time;
- Increased cohesion;
- Reduced water sensitivity;
- Improved wet strength; and
- Retained pavement flexibility.

Features and Benefits

- Effective dust suppression;
- Significant water savings;
- Lowered maintenance cost;
- Spray on;
- Easy and safe to apply;
- Environmentally friendly;
- Non slippery surface; and
- Non leaching.

Applications

SOILBOND A02 dust suppressant can be used in sensitive areas requiring appropriate dust control programs, where dust represents a hazard and an environmental concern, such as:

- Mining sites;
- Quarries;
- Farming;
- Industrial sites;
- Construction/demolition sites; and
- Trafficked and non trafficked areas.

Application Guidelines

SOILBOND A02 dust suppressant functions by binding the fine particles of soil to form a surface crust. With on-going applications, the crust is maintained to overcome traffic wear.

Treatment is achieved with a simple two-stage process:

- First Stage — crust formation
- Second Stage — crust maintenance

Table 1 below outlines the application schedule for the two-stage process.

Table 2 below defines the addition rate and dilution factor.

SOILBOND A02 dust suppressant addition rate may vary depending on traffic volume and surface conditions. Non-trafficked areas may be treated with the first stage applications only.

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Table 1

First Stage	Crust Formation	1 - 2 treatments as required	Total of 0.6 l/m ² of Soilbond A02 Dust Control
Second Stage	Crust Maintenance	Subsequent treatments as required	0.2 l/m ² of Soilbond A02 Dust Control per treatment

Table 2

Soilbond Volume	0.2 L /m ²
Dilution Factor	1:10
Water Required	0.8 L /m ²
Spray Rate	1 L /m ²

Conditions for application

- Dust control with SOILBOND A02 dust suppressant is achieved on a well shaped and compacted surface;
- Dilution factor can be adjusted depending on the surface moisture; minimum recommended dilution factor should not be less than 1:5; and
- Pre-wetting may be required under dry weather conditions prior to application.
- Important: we recommend mixing Soilbond into the water (not water on top of Soilbond)

Equipment set up

SOILBOND A02 dust suppressant can be sprayed on using standard equipment such as:

- Water cart with controlled spray bar;
- Bitumen sprayer; or
- Hand-operated spraying system.

Please contact us for further advice if required.

Product Safety

SOILBOND A02 dust suppressant is classified Non Hazardous and non Dangerous Goods. This means it is safe for handling, storage and transportation. As with all products, please refer to the Material Safety Data Sheet before use.

Quality Management

Quality Management is essential to produce a material that will provide the desired performance in the field. To control quality the following factors should be considered:

- Uniformity and compaction of the surface to be treated;
- Quantity and distribution of the SOILBOND A02 dust suppressant; and
- Spray coverage.