

# SOILGRIP

## Soil Stabilizer and Dust Control Environmentally Friendly Emulsion

### Description:

SOILGRIP is a mix of environmentally friendly co-polymer soil stabilizer and dust control emulsion product. SOILGRIP allows for high polymer soil cross linking and forms resilient crust with excellent characteristic in stabilizing the soil. SOILGRIP can be used for various types of application for stabilizing the soil with lower cost compared to other conventional products.

### Applications:

SOILGRIP used as:

- Dust control for open areas next to airports and stadiums.
- Erosion control in areas where high wind is anticipated.
- Hydro-seeding.
- Landscaping to prepare temporary roads, flat surface areas.
- Control of airborne dust.
- Stabilize sand dunes next to projects and urban developments.

### Advantages:

- Nontoxic and environmentally friendly.
- Biodegradable.
- Excellent resistance to erosion.
- Can be used in Hydro-seeding.
- Harmless to Flora & Fauna.
- Does not contaminate ground water.
- Contains soil wetting agents.
- Fully compatible with organic mulch and water dispersible pigments.
- Excellent resistance to Ultraviolet rays.
- Excellent resistance to erosion.

### Instructions for Use:

#### Surface Preparation:

Level and grade land as specified. Remove debris or any material that might obstruct spray application.

Use clean suitable soil with low chloride and sulphate contents within standards limits.

Compaction of soil will improve its ability to bear pedestrian movement but this step is not essential to soil stabilization and dust control.

As far as possible, all construction within the area designed for stabilization should be completed in order to avoid subsequent vehicular traffic that will disturb the stabilized ground.

### Mixing:

Mixing is not critical as long as care is taken to ensure thorough coverage at the intended number of square meter per liter. The dilution will always vary with the moisture contents of the soil and the type of application and result desired.

In case of mixing mulch or other ingredients, the spray equipment should be used with the following essential features:

- A tank fitted with a strong agitator to keep the mulch in suspension.
- A non-clogging pump.
- Spray hoses and nozzles.

### Application:

A suitable spray equipment should be used for application. The mix can be applied from a water truck, hydro seed truck, and spray rig, gravity feed from a tank of drum. Add SOILGRIP to water and spray on hills, cut banks, dust sand dunes areas or other surfaces where wind and water erosion or dust control are problems.

It is recommended to apply SOILGRIP in two to three coatings with compaction to achieve high soil erosion control. The first coat mix should be prepared with a diluting ratio of 1:6 (depending on surface absorbing status) before applying the second coat as recommended in the below table.

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SOILGRIP should not be applied onto surfaces likely to suffer from sudden rain till curing takes place.

The recommended application rates mentioned below are based on wide experience at field application. As the type of soil varies, dilution and application rates

must be adjusted to suit the individual requirements of each specific site. The following application rates can be used as a guideline.

## Standards:

- ASTM D4609-01:  
Evaluating effectiveness of admixtures for soil sterilization

| TECHNICAL PROPERTIES |                                       |
|----------------------|---------------------------------------|
| Color/Appearance     | Milky white liquid (clear once dried) |
| Specific Gravity     | 1.00 ± 0.03 kg/lit                    |
| Solid Content        | >30%                                  |
| pH                   | 8.0 – 10.0                            |
| VOC                  | >0.0                                  |
| Toxicity             | Non-toxic                             |
| Flammability         | Non-flammable                         |
| Viscosity            | 20-50 cps                             |
| Vapor Pressure Bar   | 0.025                                 |
| Freezing Point °C    | 0                                     |
| Boiling Point °C     | 100                                   |

\*Values indicated may vary depending on the environment and conditions of the material. Figures given are tested according to standard laboratory conditions.

## Coverage:

Dilute SOILGRIP with water 1:1 and apply as follows:

Dust Control: 12-15 m<sup>2</sup>/L  
Sand Control: 2.5-3.5 m<sup>2</sup>/L

Landscaping: 7-10 m<sup>2</sup>/L

\*Coverage rate is an approximate value, and subject to actual site conditions.

## Packaging:

SOILGRIP is available in 200 liter drums.

## Storage onditions:

Store in original packing in dry conditions away from direct sunlight. Damaged packaging, high humidity or extreme temperatures may reduce the shelf life. Store between 10°C to 30°C.

## Shelf Life:

SOILGRIP can be utilized within 12 months of production date if stored in proper conditions in an unopened original packing.

## Cleaning:

Clean the used tools with water before the product dries.

## Health and Safety:

- Avoid contact with eyes and skin. Wear suitable protective clothing such as coveralls, goggles, dust mask and gloves. Use barrier cream. Ensure that there is adequate ventilation. Do not breathe vapor or spray mist.

## FIRST AID:

Eyes: In the event of accidental splashes, flush with warm water and seek medical advice.

Skin: Wash skin thoroughly with soap and water

Inhalation: Remove to fresh air, keep patient rested

Ingestion: Do not induce vomiting. Seek immediate medical attention.

For further safety information, please refer to SOILGRIP Material Safety Data Sheet.

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## INGREDIENTS FOR 1,000 sq. m. per coat

|                                                         | SOILGRIP  | WATER   | MULCH   | PIGMENT     |
|---------------------------------------------------------|-----------|---------|---------|-------------|
| Soil stabilizer & dust control                          | 2 barrels | 500 Lt. | Nil     | Nil         |
| Wind & water erosion, control on slopes and embankments | 3 barrels | 700 Lt. | 110 Kg. | Nil         |
| Landscaping including slopes and embankments            | 3 barrels | 700 Lt. | 110 Kg. | 10 – 20 Kg. |
| Hydro-seeding                                           | 2 barrels | 600 Lt. | Nil     | Nil         |

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