



## Specially Formulated Liquid Binder to Consolidate, Bind and Stabilize Loose Soils for Improvement of Soil Integrity, Resistance to Water and to Prevent Erosion Due to Wind and Rain

### General

**SS – SoilSeal BL** is a soil stabilizing, consolidating and binding liquid, that can bind soil in place against erosion caused by wind and rains. The material is composed of selected organic binders in addition to environmentally friendly additives. The formulation is in liquid form and is diluted with water prior to application. This liquid mixture and soil when mixed and compacted at optimum moisture content in soil by spraying over the tilled soil using truck mounted sprayers, helps bind soils tightly.

**SS – SoilSeal BL** easily mixes with different soil surfaces and forms a binding crust with excellent cohesion between the soil particles. When the mix is compacted to high Proctor Density, the material can offset soil erosion due to wind and rain, show resistance to water, reduce dust on construction sites, bind soil in sensitive eco-zones, consolidate loose soils on slopes or in roller compacted concrete. It is especially suitable for creation of road sub bases.

**SS - SoilSeal BL** is not dangerous for the environment. The product is not corrosive, toxic or flammable and is economical to use. When applied as a top coat on the compacted soil, it acts as a water resistant sealer, reducing water ingress into the soil. Considering water causes most damage to road sub-bases, **SS - SoilSeal BL** helps improve durability of any pavement from highways to rural tracks to WBM Applications.

### Product Features

- Very easy to apply, just spray to optimum moisture content, till soil and compact
- Compatible with different equipment
- Equipment can be cleaned with water
- Product is not toxic, corrosive or flammable
- Concentrated binder, large dilution possible
- Not harmful to environment or existing vegetation
- Provides excellent soil binding and dust control
- Unaffected by moisture, UV or alkaline soils
- Slightly lowers water permeability / infiltration rates of soil, protects soil integrity
- Improved jobsite cleanliness
- Environmentally friendly and poses no risks in runoffs



**Soil & Slope  
Stabilization**



### Areas of Application

- Sub bases of roads
- Replacement / Improvement of Water Bound Macadams, under pavements or rural roads
- Dust reduction on construction sites, mining
- Prevention of soil erosion on slopes
- Consolidating and binding loose sandy soils
- Solar fields, Public works
- Soil excavated canals in rural agricultural irrigation systems, Earth Bunds and Dykes
- Preventing general wind and rain erosion of soil
- Improving load bearing capacity of certain soils
- Waterproof sealer for fill areas

### Areas of Application

<b>Specification Keywords</b>	Organic Binder, Environmentally Friendly, Soil Consolidation, Soil Binding, Erosion Protection, Concentrated, Non-Toxic, Non-Flammable, Crust Forming, Waterproof Sealing,
<b>Delivered As</b>	White Liquid
<b>Storage Instructions</b>	Store in a cool and dry area away from sunlight, in original packaging
<b>Shelf Life</b>	12 Months
<b>Post Use</b>	Empty packaging completely. Dispose as per local regulations.
<b>Packing Size</b>	230 kg



## Hazards and Safety



## Technical Data

<b>Mixing Ratio</b>	<b>SS - SoilSeal BL:Water</b> in ratio 1: upto 6 Parts by weight as stabiliser, upto 1:9 as sealer
<b>pH</b>	Neutral, Cement Free
<b>Consumption</b>	As per soil conditions, mixture to be used to soil Optimum Moisture Content

## Instructions for Use

Prior to application of **SS - SoilSeal BL**, till the soil using a grader or an earth tiller. Mix the **SS - SoilSeal BL** with water in a ratio of 1:5 to 1:6. **SS - SoilSeal BL** is an easy to apply compound. Mix the material well in the original packaging. Broadcast the material evenly onto the tilled soil using the appropriate spraying equipment. Post Spraying, clean all equipment with water.

Apply the material in evenly across the area. Once the soil is moistened to optimum moisture content, re-till the soil to ensure a homogenous mix of the liquid binder and the soil. Roller Compact the soil into place till a firm sub grade / soil fill is achieved to the specified 90-95% of proctor density. Measure that appropriate proctor density has been reached for the soil.

Let the material set for 48 to 96 hours depending on ambient temperatures, before commencing loading. Light traffic is permissible after 2 days. In case additional protection is needed, dilute **SS - SoilSeal BL** with water to a ratio of 1:7 to 1:9 and spray on the compacted surfaces till saturation. It helps form a bonding waterproof clear film on the compacted soil.

The material can be used on moist soil as it will help retain moisture within the treated area. Since **SS - SoilSeal BL** is not toxic or corrosive, it can be safely used in and around vegetation. If in doubt, protect sensitive plants during the spraying process.

## Safety and Precautions

- The material does not change the chemical properties of soil, it is only a binder. It is environmentally friendly and can be used in and around vegetation. Still it is advised to treat it with adequate caution and use the recommended safety gear prior to application.
- Take suitable safety precautions at all times. Always wear protective goggles, safety shoes, masks and gloves.
- If inhaled, move immediately to fresh air. In case of skin or eye contact, flush immediately with water for 15 minutes. Remove contaminated clothing and shoes and call a physician.
- Clean up promptly after job is complete. Clean equipment with water and allow to dry in a well-ventilated area. Local, state and federal regulations should be consulted for proper disposal procedures.