



Specially Formulated Sealer to Consolidate, Bind and Stabilize Loose Soils for Improvement of Soil Integrity and to Prevent Erosion Due to Wind and Rain

General

SS – SoilSeal 1K is a soil stabilizing, consolidating and binding sealer, that can bind soil in place against erosion caused by wind and rains. The material is composed of selected and compatible organic and inorganic binders in addition to environmentally friendly additives. The formulation is a concentrate and has to be diluted with clean water. This mixture can then be sprayed with regular spray equipment [insecticide sprayers, truck mounted sprayers, etc.] or introduced into the soil area by means of injection lances, for application to various types of soils.

Being composed of compatible low viscosity binders, **SS – SoilSeal 1K** easily penetrates different soil surfaces and forms a binding crust with excellent cohesion between the soil particles. Due to its formulation and properties, the diluted material can offset soil erosion due to wind and rain, reduce dust on construction sites, bind soil in sensitive eco-zones, consolidate loose soils on slopes or as a tack enhancing agent in hydro-seeding applications on large farms.

The selection of compatible water based binders, ensures that **SS - SoilSeal 1K** is not dangerous for the environment. The product is not corrosive, toxic or flammable. The material can be diluted several fold for application, still retaining the ability to bind soil and prevent erosion by creating a consolidated mass of soil, not easily affected by wind or water.

Product Features

- Very easy to apply, just dilute, mix and spray
- Compatible with different spraying equipment
- Equipment can be cleaned with water
- Product is not toxic, corrosive or flammable
- Concentrated product, can be diluted before application
- Not harmful to environment or existing vegetation
- Can be used in hydro-seeding or mulching operations
- Provides excellent soil binding and dust control
- Unaffected by moisture, UV or alkaline soils
- Does not affect water permeability or infiltration rates of soil
- Improved jobsite cleanliness
- Environmentally friendly and poses no risks in runoffs



**Soil & Slope
Stabilization**



Areas of Application

- Dust reduction on construction sites
- Dust reduction on mining sites
- Large scale farming
- Prevention of soil erosion on slopes
- Consolidating and binding loose sandy soils
- Solar fields
- Public works
- WBM consolidation for low-volume traffic roads
- Soil excavated canals in rural agricultural irrigation systems
- Preventing general wind and rain erosion of soil
- Improving load bearing capacity of certain soils

Areas of Application

Specification Keywords	Organic / Inorganic Binder, Environmentally Friendly, Soil Consolidation, Soil Banding, Erosion Protection, Highly Dilutable, Concentrated, Non-Toxic, Non-Flammable, Crust Forming
Delivered As	Coloured Liquid
Storage Instructions	Store in a cool and dry area away from sunlight, in original packaging
Shelf Life	12 Months
Post Use	Empty packaging completely. Dispose as per local regulations.
Packing Size	220 kg

Assess Build Chem Private Limited



Hazards and Safety



Technical Data

Mixing Ratio	1 part by weight SS - SoilSeal 1K to upto 9 parts by weight water
pH	~ 11.0 when undiluted, ~7.0 at full dilution [Non-Corrosive]
Consumption	As per Application to cover Soil Completely

Instructions for Use

SS - SoilSeal 1K is an easy to apply compound. Dilute the compound as per the recommendations and on basis of a small site trial [consumption depends on porosity of soil and application conditions]. Mix the material well in the original packaging. Dilute the material with clean potable water and pump into the appropriate spraying equipment.

Spray **SS - SoilSeal 1K** over the area to be treated using the appropriate spraying equipment. Insecticide sprayers, truck mounted sprayers, hydro-seeding sprayers or similar equipment can be used to spray the product at the appropriate consumption. To introduce the material deeper into the soil strata, perforated lances can be used to inject the diluted **SS - SoilSeal 1K** into the soil and its surrounding areas. Post Spraying, clean all equipment with water.

Apply the material in evenly across the area applied in large drops and not very fine mists. Allow the material to penetrate the soil evenly [penetration can vary from a few cm to about a metre depending on dilution and soil porosity]. As an example, coarse soil containing little to no fines will show greater penetration while fine silty soil would be penetrated to a lesser degree. Do not apply immediately after rain or if rainfall is imminent. Allow the applied material to be cure evenly for a few days.

The material can be used on moist soil as it will help retain moisture within the treated area. Since the dilute **SS - SoilSeal 1K** 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.