CONPROMAC
CONCRETE PRODUCT MACHINES

SOIL STABILIZATION WITH SPECIAL LIQUID POLYMER

''We **KNOW HOW** to Shape Concrete.''

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Highways– Parking Spaces- Airports– Embankments– Banquettes

Soil Stabilization / Dust Control / Erosion Control

SEAL WHITE (SW) is a water-mixed multi-purpose - environmentally safe-polymer fluid used in most countries around the world to control and manage various ground conditions. When applied correctly and in sufficient quantities, SW will effectively prevent base disturbances, dust contamination, soil erosion, and water loss from dams and reservoirs.

Base (Soil) Stabilization.. Ministry of Transport field tests revealed that the strength capabilities of SW are equivalent to cement stabilization. Other tests have also shown that environmental standards for SW's moisture resistance are significantly met and exceeded.

The SW can be easily adapted to routine construction procedures without the requirement of any special equipment or handling measures. The product is simply mixed with water and spread over the ground in sufficient quantities to bind the soil and turn it into a solid mass of tightly adhered soil particles. Far below the cost of cement or lime stabilization, SW is the most cost-effective and effective solution for road surface stabilization.

Avare the Difference of SW!

There are no visible signs of damage or deterioration on SW-treated roads, even after exposure to the extremes of the most heavily loaded towing trucks, military trucks and severe weather conditions. When properly applied in sufficient quantities, SW will greatly increase soil strength and significantly reduce its permeability.

Stabilizing Unpaved Roads & Controlling Dust Contamination

Most unpaved roads in the world have been rehabilitated with SW. The product is simply added to water and spreads over the road surface during normal construction or restoration. A top coat is applied as the last coat and with occasional maintenance applications the road will remain stabilized and protected from dust contamination. As a result, it provides significant cost savings by eliminating the need for asphalt or other types of wearing surfaces and reducing maintenance, repair or restoration efforts. It is suitable for towing (load carrying) roads and roads with heavy traffic.

Dust Pollution is a Big Problem!

City administrators and government agencies around the world engage in endless struggles to protect their citizens from the effects of dust pollution. Strict environmental protection laws do not allow this problem to be forgotten, forcing most municipalities to engage in resource and time consuming daily irrigation activities. Combating dust contamination with continuous irrigation will be an obsolete method with SW - which can be solved much easier and less costly with initial applications of SW and occasional reapplications as needed.

Recovery of Old Asphalt Roads... is one of the best uses of SW. The product is environmentally safe and therefore an excellent alternative to a method of depositing more and more asphalt emulsions on undesirable soil. The result of pulverizing asphalt and mixing it with old ground has improved dramatically with the introduction of SW as a superior stabilizing agent that binds it all together tightly. There is a significant advantage in using SW to renovate old asphalt roads.

- **Cheaper**
- **More effective**
- **Easier to apply**
- **Superior bonding capacity**
- **No special handling procedure required**
- **No special equipment or heating tank required**

The main advantage of using SW with old asphalt is that the process of excavation and disposal of old asphalt is completely eliminated in accordance with the strictest environmental laws. Overall, great savings and superior performance can be expected from the SW when recycling old asphalt roads.

Stabilization with Cement and SW

The amount of cement in the soil floor can be reduced by up to 50% when mixed with SW, and the result will be equal to or better than cement in strength alone. More importantly, savings of up to 30 percent can be achieved in this process. The plastic character of SW will help to create a more resilient floor with cement, thus reducing the fracture threshold and resulting in a significant reduction in maintenance cost. Laboratory tests have shown that the strength properties of SW are equivalent to cement in similar soils.

Stabilization of Landfill barriers and Control of Soil Erosion

SW has a tremendous capacity to make floors virtually impermeable. SW meets and even exceeds the US EPA standard. That's why it's a super addition to garbage composite barriers. When used for landfills or soil erosion control, SW transforms into a solid membrane that seals itself against liquid or moisture penetration. In fact, non-standard soils that need to be excavated and replaced can be treated with SW, resulting in tremendous savings in landfills, landfill embankments and water reservoirs (dams).

Lab Testing with SW

The increase in soil strength and the significant decrease in permeability indicate that the product has superior capacity. The test results indicate an increase in strength of approximately 1.180%, while the decrease in permeability exceeds the standards many times over.

Equipment Needed for Application in Soil Stabilization

- **Grader**

GRADER, which is used in the first stage, is used for ground leveling and surface preparation before application.

- **Irrigation Tank**

The IRRIGATION TANK used in the second stage is used in the process of spraying the material on the surface after ground preparation. Depending on the surface condition, the application is repeated once or twice with the Irrigation Tank.

- **Cylinder**

It is used for surface leveling and compaction, which is the last stage of the application.

Material Usage Amounts and Depth Effect:

Consumption Amount on Normal Vehicle Roads: 1 liter per 1 m2 (Impact Depth 15cm)

Consumption Amount on Heavy Load Vehicle Roads: 2lt per 1 m2 (Impact Depth 25cm)

**** The depth of impact can be increased up to 40 cm depending on the amount of material to be used and the application site.*

Curing Time, Life and Color Options:

Floor hardening time after application is 24 hours. The life of the application can reach over 10 years by performing simple annual crack checks and maintenance.

The standard application color is transparent and the ground color remains after the application.
Different color alternatives can be offered depending on the application area and demand. (For example, black color application for asphalt appearance)

APPLICATION EXAMPLES- PARKING AREA

Step 1

Step 2

Step 3

Step 4

Step 5

Step 6

Step 7

Step 8

APPLICATION EXAMPLES- EARTH ROAD PAVEMENT

APPLICATION EXAMPLES- ASPHALT CRACK FILL / PATCH

SCAN ME

To See How it can be applicable
Watch the Video.

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