

# BWT TF SEALANT

## PAVE ROADS OR DRIVEWAYS DIRT CHEAP!

TF Sealant is an all-in-one general-purpose soil additive. TF Sealant is an environmentally safe, low cost liquid solution, which is mixed with water and used to control and manage a variety of soil conditions. As a barrier against moisture, TF Sealant is so effective that, when used in sufficient concentrations, it can be transformed into a flexible liner which could be useful in the fortification of ponds, embankments, and landfills. When properly applied to virtually any soil in sufficient quantities, TF Sealant will effectively control problems associated with dust pollution, soil erosion, and base failure. These products are superior in comparison to the competitors.



### Advantages Of Using TF Sealant:

- UV Resistant
- Flexibility for future changes
- Protects the pond base from deterioration
- Little or no maintenance
- Eliminates the cost of expensive alternatives
- No need for special equipment or handling
- Completely safe for fish

TF Sealant is used in a multitude of applications. The following are only a few. AIRFIELDS, BARRIERS, BASE, DAMS, DRIVEWAYS, DUST CONTROL, EROSION CONTROL, GROUND COVER (in place of plastic liners and gravel) PARKING LOTS, PONDS, RACEWAYS, RECYCLING ASPHALT (using a cold-in-place method), RESERVOIRS, ROAD CONSTRUCTION, ROOFING (to seal leaking tar based flat roofs), SEEDING (allows germination by holding soil and moisture in place), WALKWAYS.

TF Sealant is an excellent and cost effective substitute for lime and other traditional base stabilizers.

### GENERAL GUIDELINES

#### Dust Control and Soil Erosion Control TF Sealant

Dust Control and Soil Erosion Control TF Sealant is highly effective against the problems associated with dust pollution and soil erosion. The product is simply mixed with water and applied over the surface of the area of coverage with a minimum of two applications. When properly applied in sufficient quantities, TF Sealant will quickly dry into a hardened membrane, which will trap soil particles and loose aggregate, and as a side benefit, it will provide excellent upper level base stabilization. All that is needed is a water truck or other means of even distribution of TF Sealant. Simply apply a mixture of TF Sealant and water directly over the area of coverage with two or more applications and allow each application to thoroughly soak into the upper levels of the soil. After compaction, the end result is an elimination of dust and a highly effective barrier against moisture. When the mixture of TF Sealant and water has been absorbed completely into the soil, a curing process will transform TF Sealant from a liquid into a solid, thereby trapping the dust and solidifying the ground into a hardened and moisture resistant membrane.

## How well does it work? A picture is worth a thousand words!

Before TF Sealant  
Both cars 30 miles per hour.



After TF Sealant  
Same speed, same road 1 day



**Equipment:** The above process is typically accomplished with a water truck supporting a spray bar mounted 12 to 30 inches above the ground. A “rubber tire” compactor is useful in providing immediate compaction, but if not available, the area coverage will eventually be compacted by routine traffic.

**TF Sealant** is totally environmentally safe, and is certified as such. A letter is available which states the following.

Ref: Code of Federal Regulations – Protection of Environment, Part 401.15 and Appendix a to Part 403, revised July 1, 1995

This letter certifies that none of the chemicals used in the manufacturing of TF Sealant Liquid Soil Sealant are listed on the attached environmental protection listings for toxic pollutants and priority pollutants.

### **Liquid Pond Sealant and Stabilizer**

**TF Sealant Liquid Pond Sealant and Stabilizer** is an all-purpose liquid additive for all types of soils used in the construction of earthen ponds. The product is specially formulated to give maximum strength and moisture resistance for base applications. TF Sealant is an excellent alternative to the costly options of excavating and replacing unsuitable soils or installing other types of expensive liner systems. The product is easy to use and it requires no special equipment or handling procedures. It is simply integrated into routine construction procedures by adding it into the water of a water truck and distributing it evenly throughout the area of coverage. After compaction, the end result is a greatly strengthened and superior pond base, which will prevent leakage and costly future repairs.

### **Erosion Control/Seeding**

SAVE TIME AND MONEY USING OUR TF Sealant PROCESS. DON'T WORRY ABOUT YOUR SEED WASHING AWAY. Grow grass through our TF Sealant if the mix is 10 parts water to 1 part TF Sealant. The best stabilization (Erosion Control) process.

The TF Sealant process is easily accommodated into routine procedures with no requirement for special equipment or handling procedures. Broadcast grass seed over a designated area, cover grass seed with a thin layer of composted material or soil, at least 1/4 inch, then apply TF Sealant to top layer of soil. You will be amazed at how your grass will grow and how it will control the erosion. Grass grows very well through TF Sealant diluted 10 to 1. TF Sealant acts like a plastic wrap, coating the area trapping the moisture into the soil. It allows the seeds to germinate faster. Water could still be applied to the surface and water will penetrate into the soil.

This is one product contractors, nurseries, erosion control specialists and others cannot do without!!

**Environmentally Safe:** One of the most important benefits of using TF Sealant for the construction of earthen ponds is that is environmentally safe. There are no toxic or hazardous chemicals used in the manufacturing of TF Sealant, and when fully cured, it will not re-disperse back into the pond. Fish studies have been conducted with TF Sealant and there are reports available upon request. TF Sealant contains no acids, corrosives, enzymes, chlorides, or lime.

**As a Barrier Against Moisture:** TF Sealant is so effective that, when used in sufficient quantities, it can ultimately be transformed into an impermeable moisture resistant liner. Unlike other liquid additives, when fully cured, TF Sealant will not re-disperse in water or rain, and it is not affected by degradation from alkaline materials and sunlight. Compared to other products, TF Sealant contains no acids, corrosives, enzymes, chlorides, or lime, and the cost savings over geo-textile lines is more than 50 percent.

TF Sealant Liquid Soil Sealant and Stabilizer sometimes stymies people with its simplicity. TF Sealant's environmental safety, ease of calculation, and simplicity of application often lead potential users to doubt its efficiency and longevity. "It sounds too good to be true" is often heard. But, it's true!

Frequently Asked Questions:

Question #1 - What is in TF Sealant that makes it so much better than other soil stabilizers?

Answer - TF Sealant is a proprietary blend of copolymers. No element, or combination of elements, before, during, or after manufacture, is included on the USEPA's list of hazardous chemicals. There are no petroleum, or petroleum based, compounds in TF Sealant, alleviating this worldwide concern. Rather than counting on mystic "ion exchanges", or causing physical or chemical changes in the soil, or providing for temporary (biodegradable) stabilization, TF Sealant's copolymer construction binds to itself and the soil as it cures; it binds larger aggregate and suspends the finer materials in a complex, long lasting, matrix of interwoven polymer chains.

Question #2 - How much TF Sealant do I need?

Answer - As with other forms of stabilization, TF Sealant will work somewhat differently in different types of soil. Generally, the more granular a soil, the more product would be required. A general rule applies that 1/2 gallon of a 1:10 mixture of TF Sealant and water, applied to soil to reach Optimum Moisture Content (OMC), then thoroughly compacted, will achieve superior to excellent base and sub-base stabilization in most soils in the AASHTO spectrum. Due to the need to provide for wear and tear when used on unpaved surfaces, TF Sealant applied to the surface in a 1:5 ratio will allow most surfaces to remain pothole and dust free for a significantly longer period of time than with any other product.

Question #3 - How do I apply TF Sealant?

Answer - TF Sealant is mixed in a water truck to the proper proportions and applied to the soil surface in two passes. The first pass will use 1/2 of the mixture over the area to be treated. After allowing the product to soak in to the soil for 1-2 hours (depending on local and soil conditions) the truck direction is then reversed (to offset variations in the spray bar) and the remaining 1/2 of the mixture is then applied. This method is used whether one is stabilizing or controlling dust/erosion. The only major difference between the stabilizing or controlling dust/erosion is that when stabilizing, common soil preparation and subsequent compaction methods are used depending on the depth of the soil to be treated. When controlling dust or erosion, TF Sealant is simply applied to the surface of the area requiring treatment and allowed to soak in. NOTE: If this latter area is loose soil, some compaction after application may be necessary. Conversely, if the area to be treated is densely compacted already, the area should be scarified and then lightly compacted prior to applying TF Sealant as a stabilizer or dust/erosion control.

Question #4 - Why is TF Sealant more expensive per square yard than other stabilizers?

Answer - TF Sealant is more expensive to produce than other stabilizers due to its unique chemical nature. Thus, ounce per ounce, TF Sealant is more expensive than other stabilizers. Also, because TF Sealant is applied to the soil in quantities that produce results superior to the other stabilizers (which are sometimes applied at centiliters per square yard), the net cost of the initial application of TF Sealant will generally be more than with shorter lived stabilizers.

Question #5 - Why should I buy TF Sealant when there are less expensive stabilizers?

Answer - Quality, longevity, and lower long-term costs. The savings realized over the years on reapplication, equipment maintenance, and personnel costs, will more than adequately repay the initial costs of TF Sealant.

## COMPARISONS BETWEEN TF Sealant AND OTHER TYPES OF STABILIZERS

### SULFURIC ACID

More expensive than TF Sealant per area of coverage. Most expensive shipping rates. Very toxic. Flammable

Corrosive – damages equipment. Environmentally unsafe in the delivered containers. Crystallizes minerals in the soil. Disposition of empty containers must be accordance with EPA regulations.

### ENZYMES

More expensive than TF Sealant per area of coverage. Resolubilizes (re-liquefies) more easily in soils with lower percentages of fines, (i.e. washes out). Recommendation application rate is much lower than TF Sealant, yet there is no evidence that is a stronger, even at equal concentration.

### CALCIUM CHLORIDE

More expensive than TF Sealant per area of coverage. Surface applied. Goes on concentrated. Only penetrates 1 to 3 inches below the surface. Therefore, load bearing capacity is much less than TF Sealant. Corrosive. Very Slippery when wet.

### LIGNOSITE

More expensive than TF Sealant. Derivative of tree sap. Resolubilizes (re-liquefies) easily. Used mostly for dust control. Not as well known for serious base stabilization, although advertised as such. Often advertised as bio-degradable.

### LIME AND SOIL CEMENT

Much more expensive than TF Sealant. Very dusty. Harmful to equipment, vegetation and people. Special equipment and handling required.

There is also a Village builder soil block manufacturing machine that produces 10,000 interlocking blocks in 10 hours using your soil and TF Sealant.