Soil Pak- 250 Benefits



- Environmental Friendly Solution
 - · Biodegradable with 20 days
 - · Spills- Cleanup with fresh water
- Low Cost alternative to conventional Soil Cementing & Stabilization Techniques
 - · Higher Compressive strength
 - · No hazardous chemical impact
- Process utilizes conventional construction equipment
- Utilizes materials on site -reducing material & transport costs
- · Time saving process
- Durability-Reduce scheduled rework cycles

SoilPak-250 Handling Safety



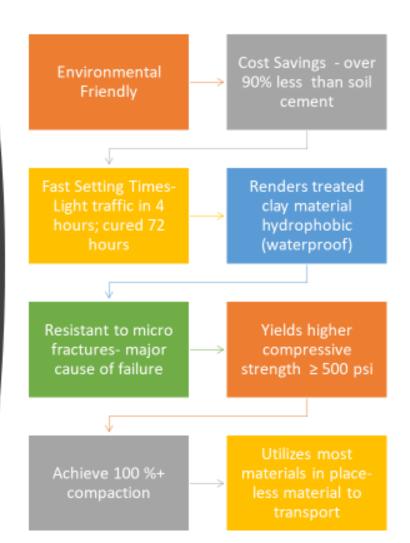
HMIS Rating

Health: 1
Flammability: 1
Reactivity: 0
Personal Protection: B

<u>Container Packaging:</u> 5 Gallon Buckets, 265 Gal IBC Tote, Bulk Tank

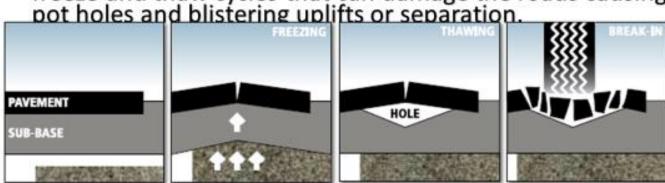


SoilPak-250 Advantages



 Laboratory testing with Soil Chem Road Material has demonstrated unprecedented results and will undergo third party CBR Testing and certification. Which measures the strength and load bearing capacity of a road after it has been submerged under water for 96 hours, which simulates a road submerged in a flood for 4 days. The ASHTO and ASTM testing standards determine this to be the most severe conditions a road should have to endure.

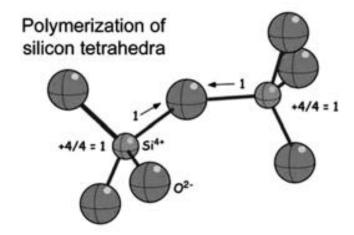
 Because the material provides a water resistant barrier under proper compaction and application it's not effected freeze and thaw cycles that can damage the roads causing





SoilChem Road Material

This material dissolves silicon and aluminum ions and the neighboring silicon and aluminum hydroxide molecules, which then undergo a condensation reaction. This reaction causes the "monomers" and other silicon and aluminum hydroxide molecules to poly-condense or polymerize, to form rigid chains or nets of oxygen bonded tetrahedral. The physical properties of the soil can often approach and sometimes even exceed the structural strength of concrete.







SoliChem R&D Lab. 3928 Hwy 80 Rayville, LA 71269 318-728-6565

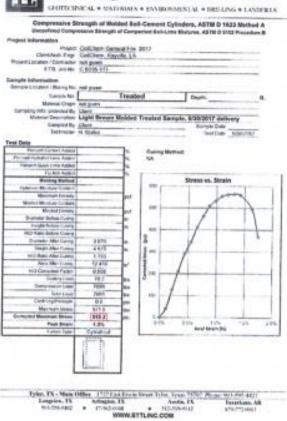
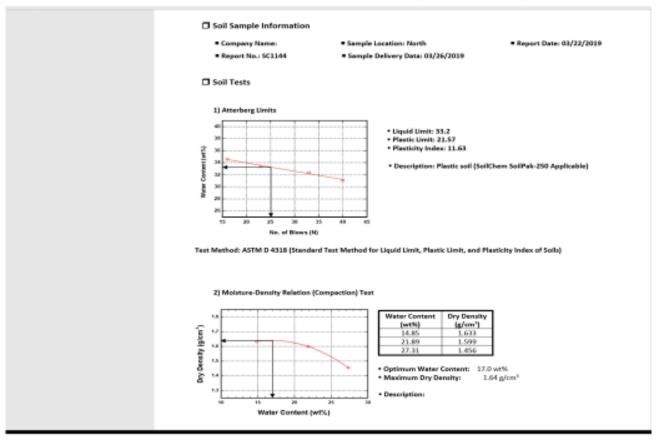


Figure 3. The Compressive Strength of Sample No. 3 (Cured for 7 days)







Soil-Pak-250 Typical Physical Properties



• Appearance: Brown

• Physical State: Liquid

Odor: Sweet

• Specific Gravity: 1.07

• Weight per Gallon: 10.4

· Solubility in Water: Soluble

• Ph: 3-6

• Boiling Point: > 212*F

SoilPak-250 Process



- Enzyme is a catalyst which accelerates the ionic bonding to clay particles creating an immediate bond
- Modifies the surface charge and structure of clays rendering them hydrophobic (waterproof)
- · Reduces Plasticity & Permeability
- Plentiful ionic bonds continue between SoilPak-250 and soil elements to create a rock hard road
- Improves the ability to compact soils to full compaction state



Soil Stabilization Systems Applications

- Municipal Roads
- Haul Roads
- Logging Roads
- Mining Roads
- Parking Lots
- Drilling Site Pads
- Lease Access Roads
- Service Yards
- Pipe Yards
- · Containment Ponds
- Railroad Lines



Application of SoilChem Road Material

It can provide not only a solid road base eliminating the need for gravel and other expensive materials, but it can provide great dust control and eliminate wash boarding and continuous maintenance.





The preferred application depends on the traffic volume and required load rating. Just as with cement the depth or thickness of the application can be adjusted to fit the specific application. Heavy industrial usage requires 12" of treatment while residential application may only require 4" to 6" of treatment.



Laboratory testing revealed that the best performance is achieved at a mix ratio of 1 part **Soil Chem Road Material** to 1 part water and applied at a rate of .6 gallons per yard to a depth of 12". Following deep stabilization, the solution is sprayed topically at a rate of .2 gallons per yard and then compacted to a 90% compaction using a sheep foot and rollers.

