

**PRODUCT DESCRIPTION AND USE**

Decocoat Polymer Systems Solid Earth Liquid Polymer is a soil solidifier used in the construction of natural looking paved roads. Solid Earth Liquid Polymer converts suitable natural soils into solid paving surfaces suitable for vehicular traffic in even the harshest environments. The Solid Earth wear surface once installed effectively on a properly compacted and suitable sub grade can very easily outperform asphalt in terms of compressive strength. Other water based liquid polymers soil stabilizers, are mainly used as dust control agents and are not suitable for the construction of permanent roadways. This puts Solid Earth Liquid Polymer in a class all on its own. You will find many "Like" products in the marketplace such as enzymes and liquid polymers used to strengthen or stabilize "Road Base" and or "Road Sub Grade", but these products are not capable of producing load bearing roadway wear surfaces. The Natural Soil Pavement produced utilizing Solid Earth Liquid Polymer has more than twice the supportive strength of asphalt and none of the associative environmental concerns as the product contains no VOC's (Volatile Organic Compounds) and will not harm the environment.

**1.) TYPICAL USES**

Solid Earth Liquid Polymer natural soil paving is an esthetically pleasing alternative to both asphalt and concrete paving. This gives designers, architects and engineers the ability to use existing natural soils and or decorative soils such as decomposed granite to produce solid load bearing roadways, walkways, pathways, etc, with a look and performance that has never before been an option. The many uses of Solid Earth Liquid Polymer include the construction of:

Service Roads	Patios and Picnic Areas	Storage Yards	Slope Protection
Golf Cart Pathways	Parking Lots	Bike Paths and BMX Tracks	Wheelchair Access
Driveways	Natural Looking Paved	Trap and Bunker Lining	
Walkways and Pathways	Roadways	Erosion Prevention	
Tennis Courts	Landing Strips	Vegetation Prevention	

**Base and Sub Grade Requirements**

As with any type of paving Solid Earth Liquid Polymer natural soil pavement requires a supportive foundation. Much like asphalt and concrete, the existing soil, if determined suitable, compacted to a plus 90 percent provides an excellent sub grade for Solid Earth natural soil paving. Sometimes in the case where the existing soil is not suitable to use as sub grade, the contractor may have to import a crushed gravel base material and compact accordingly. In cases where the roadway will be subjected to high levels of water from either, high water tables or ponding from existing runoff condition, the sub base material should be built above the water table or projected run off levels in order to provide a suitable sub grade in the wet conditions. Crushed rock is the suggested material to be used for building up the roadbed in areas where water is a concern .

**Advantages**

1. Natural Soil Paving for those that want a "natural look" to their development
2. Reduced cost from conventional paving methods like asphalt or concrete.
3. Lower environmental impact than conventional paving methods.
4. Reduced dusting conditions that would be associated with normal dirt roads.
5. Completely UV resistant with lower life maintenances cost when compared to competing products.
6. Many design options for using decomposed granite like materials to achieve specific looks for specific projects at a low cost.
7. Easy to maintain, with simple low cost maintenance procedures without the added expense of costly re-paving procedures
8. Easy to repair damaged roadways without special equipment.

**Limitations**

1. Not suitable for installation during rainy periods.
2. Not suitable for soils without proper cohesiveness or soils with less than 15-20 %fines, may be necessary to import needed fines.
3. Not suitable for use in areas where de-icing solutions are to be used, they may be harmful to the soil binder.
4. Not recommended for installations below 50°F during application process due to freezing while curing.

**2.) PHYSICAL CHARACTERISTICS AND TECHNICAL DATA**

1. Drying and curing time is a two stage process; the product must dry before it can cure.
2. Compressive strength of treated soil will be in the range of 800-2000 PSI depending on the strength of the soil composition.
3. Product is completely hydrophobic, which means that the product will not weaken when subjected to water.

**3\_) FOR PRODUCT AVAILABILITY CONTACT:**

Decocoat Polymer Systems  
480-659-7901

**4.) SPECIFICATION & TECHNICAL ASSISTANCE**



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