

IntegraSoil – Your Cost-Effective, Environmentally-Friendly Soil Stabilization Solution

IntegraSoil enables the construction of hard-surfaced, trafficable roadways in rural areas, forestry lands and in developing countries, using only locally available materials and light construction equipment. IntegraSoil is ideal for use on road projects where cost is an issue, or where supplies of road building materials such as asphalt, tar, aggregate, fly ash, lime and concrete are not locally available. When properly added to soil, IntegraSoil creates a dense soil structure that has superior resistance to water penetration, erosion, wear, and weathering, while providing for a high degree of stabilization with improved tensile strength. If you are looking to build an extremely durable road, construct a trail or path, or control dust and erosion, IntegraSoil can get the job done.

IntegraSoil

IntegraSoil is a synergistic mixture of organic materials specifically engineered and formulated to bond soil particles together. IntegraSoil creates a three-dimensional soil matrix resulting in enhanced stability and durability. IntegraSoil reacts with naturally-occurring elements found in soil fines; IntegraSoil reacts with these elements to provide a cohesive reaction within the soil, enhancing and improving the natural cementing capability of soil. The result is a dense soil structure

Asphalt Pavement Alternative

Works With All Soils

that has superior resistance to water penetration, deformation and erosion. IntegraSoil also forms a protective film that eliminates dust, prevents mud and controls erosion thereby providing a solution to today's challenging dust and erosion control requirements.

There are numerous benefits from utilizing IntegraSoil, including reduced construction costs, reduced construction times, lower maintenance costs as well as the ability to utilize on-site materials, eliminating the need to import off-site materials.

Environmentally Safe

As worldwide trends are continuing towards strict health and environmental regulations, IntegraSoil provides a green solution to reduce dust-related environmental and health concerns. IntegraSoil is comprised of 100% organic products – making it biodegradable, non-corrosive, and safe for all living organisms and the environment. We believe only 100% organic solutions, like IntegraSoil, should be used to solve our world's growing environmental issues.

Usage Guidelines

IntegraSoil is applied to a soil bed which has been tilled to a depth of 3"-6". IntegraSoil is best applied with a spray arm attached to a tanker truck to ensure a consistent application of the product. Resperion Engineers can provide you with an exact application rate depending on a number of factors including: soil type, depth, use, etc. Once the IntegraSoil has been added to the loose material, the area should be graded and compacted consistent with the engineering specifications. Once cured, which takes from 2 to 6 hours, the treated area will be ready for use. It is also possible to add another surface treatment for additional strength, durability, or traction including: IntegraSoil, asphalt overlay, chip seal or crushed aggregate.

Benefits From Utilizing IntegraSoil

- Increases load-bearing capacity
- Maximizes use of low cost, on-site materials
- Ideal soil stabilization solution when paving is too expensive
- Fast application and immediate results
- 100% natural, Eco- friendly



Resperion Solution: IntegraSoil

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Resperion's IntegraBase

Resperion's IntegraBase is a multi-metallic catalyst (MMC) in asphalt soluble form. When mixed with asphalt cement and aggregates, this catalyst initiates a series of chemical reactions which ultimately cross link the asphalt molecules and consume the catalyst; this reaction creates an Organic Metallic Complex, the strongest bond in all of Chemistry. The new higher-molecular-weight materials created are extremely resistant to heat and heavy loads. They also exhibit superior water resistance and anti-stripping properties.

Resperion's IntegraSeal

IntegraSeal is a cost-effective and environmentally friendly dust control composition that can be applied onto a variety of soil or gravel surfaces to control dust as well as to compact and stabilize the top or base surface. Unlike most other chemical dust control and soil stabilization products, IntegraSeal is 100% organic, biodegradable, and causes neither toxic leaching nor adversely affects vegetation, aquatic life or other living organisms.

Applications

- Can be used on any unpaved road surface
- Construction, industrial, service, access and rural roads
- Ports and Airports, both onsite and adjacent areas
- Military installations
- Parking & storage lots
- Gravel pits
- Mine sites
- Drill Sites
- Landfill

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Quarries & Mines

Railroads/Mass Transit

Recreational

Trucklines/Terminals

Utilities/Power Plants



Entire soil treatment area is tilled to a depth of 3" to 6", depending on project design.



IntegraSoil is applied at predetermined rate to loose soil by spray truck.



IntegraSoil treated soil is then graded and compacted to ensure optimal results.

<http://www.resperion.com>

