

Soil-Sement Engineered Formula[®]: Technical Information

DESCRIPTION

Soil-Sement Engineered Formula is an environmentally safe, uniquely formulated polymer emulsion producing superior bonding and cohesion while providing significant dry and wet strength benefits for base stabilization.

PERFORMANCE

Soil-Sement Engineered Formula has unique abilities to penetrate, saturate, and bond surface dust and aggregate together and “cement” this to the base to create a hard, dust-free, water resistant and resilient surface.

Its effectiveness results from the length and strength of its polymer molecules and their ability to bond with surface materials. Soil-Sement Engineered Formula has a unique chemical structure made of molecules attached in relatively straight linked chains and then cross-linked between other chains or grids that may be 1,000,000 molecules long. It is a true giant compared to the much smaller molecular structure of other polymer products, petroleum resin, tree resin, lignin products and asphalt emulsion products which range from 100 to 10,000 molecules. As a result, Soil-Sement Engineered Formula can be as strong as steel or as resilient as rubber.

Soil-Sement Engineering Formula includes a total package consisting of Midwest’s design, installation, post installation performance testing.

ENVIRONMENTAL BENEFITS

Soil-Sement Engineered Formula is non-toxic, non-corrosive, non-flammable, does not pollute ground water, does not disturb vegetation and does not increase the alkalinity or acidity of soil. Upon drying, it does not contribute any pollutants including Biological Oxygen Demand to storm water discharge. Soil-Sement Engineered Formula will actually reduce pollutants by reducing Total Suspended Solids present in runoff.

Soil-Sement Engineered Formula stops the continuous cycle of base deterioration by building an impenetrable, stabilized and durable surface exhibiting superior strength, stiffness, modulus, elasticity and weather resistance resulting in long-term effectiveness and performance.

PHYSICAL PROPERTIES

General Appearance:	Milky white liquid, dries clear
Specific Gravity:	1.01 - 1.15
Density:	8.4 - 9.5 lbs/gal
Solubility in Water:	Dilutable
Vapor Pressure:	mm Hg @ 20°C = 17
Odor:	Characteristic sweet odor, none when cured
pH:	4.0 - 9.5