

## Typical Walkway/Trail Application

### Controlling Fine Particle Migration

The unique characteristics of **DirtGlue™** polymer emulsion makes it the ideal solution for dealing with the ever- increasing need to minimize airborne and waterborne migration of fine particles from walkways, pathways, and trails.

### Environmental Friendliness

Usually, walking or hiking trails are in environmentally sensitive areas. **DirtGlue™** is a water-based polymer that exhibits no adverse environmental properties. In fact, **DirtGlue™** type polymers have been used around the world to control erosion while promoting growth of native and imported species of vegetation.

### Suitability of Aggregate

Suitable aggregate may be native (in place) aggregate, or “specified” aggregate that is brought on site in cases where the native aggregate is determined to be unsuitable. Proper aggregate would be made up of a gradation or percentage ratio - see “Gradation Chart” [attached] of varying sizes of particles. The particle sizes would range from .001 mm up to a maximum of ¾ of an inch or 19 mm (20% fines required). Depending on the desired or expected performance requirements, there may be some leeway.

Crushed quarry rock is superior to bank run gravel because the sharp, rough, angular nature of crushed rock makes it naturally bind together when compacted and the smooth, rounded surfaces typically found in bank run gravel allow the individual particles to move more freely because they have less friction and more void spaces. The greater void spaces of the bank run aggregates also means a greater amount of **DirtGlue Industrial™** may be required to fill the voids to create the desired strength.

### Typical Application

A typical application would require that the **DirtGlue™** penetrate to a depth of not less than one and one half inches and not more than two inches. If native soil is determined to be suitable, then in order to ensure proper penetration, the native soil must be thoroughly loosened to a depth of 1 ½” to 2” (do NOT exceed 2”). **DirtGlue™** shall be applied at a rate of 2400 gallons per surface acre or 1/2 gallon per sq yd (10 gallons per cubic yard of aggregate).

A soil moisture content test should be performed to determine appropriate dilution ratio of the **DirtGlue™**. If it is preferable or desired that aggregate is to be brought in, then the aggregate should be spread in such a way so as not to compact it during the spreading

process. Spread about 2" of soil and then apply as above. **DirtGlue™** should be applied at the highest rate possible without allowing any liquid to run off of the desired application area.

For a better quality application and longer life, a sealer coat may be applied at a rate of 250 gallons of **DirtGlue Industrial™** per acre after a strong dried crust has formed on the surface of the application (1 – 3 days). This sealer coat should be diluted with 4 - 5 parts water at the time of application and applied as heavy as possible without permitting any run-off (use multiple passes if necessary to prevent run-off and apply all of the **DirtGlue™** /water mix specified).

## **Repairs, Maintenance**

Repairs may be made using the same aggregate as the original trail by mixing **DirtGlue™** with the aggregate in a wheelbarrow or other appropriate sized container, depending on size of repair. The repair will not only be invisible and seamless, but will have the same strength as the original application because **DirtGlue™** bonds readily to itself. Mix the product at a rate of 10 gallons per cubic yard of aggregate. In areas that are constant trouble spots and require more continuous repairs, extra **DirtGlue™** may be used in the repair mix. DirtGlue Enterprises recommends a sealer coat annually to be applied at a rate of 250 gallons per surface acre.

This sealer coat should be diluted with 4 - 5 parts water at the time of application and applied as heavily as possible without permitting any run-off.