METHODOLOGY

A. Heavy Duty Driving Surface

Application Rates (per surface acre)

*DirtGlue* polymer emulsion: 2,400 gallons
Water: 3,600 – 14,400 gallons

Application Process

1. Loosen the existing soil using a scarifying attachment mounted on a grader (or similar piece of equipment) or a tractor with an agriculture disk attachment. If additional soil is required, it should be applied and mixed into the existing soil at this time. It is important to loosen the soil to ensure penetration of the *DirtGlue*/water mixture into the soil.

2. Apply *DirtGlue*/water mixture to soil using a water truck equipped with a gravity feed drip bar, spray bar, or automated distributor truck. Multiple passes will be necessary to get the desired amount of *DirtGlue* polymer emulsion for the specific application. Multiple passes will also ensure gradual, thorough saturation of the soil.

3. Thoroughly blend the *DirtGlue*/water mixture into the soil with a roto-tiller, “S” harrow, or similar attachment. The soil must be evenly mixed and saturated with the *DirtGlue*/water mixture to a depth of four (4”) inches.

4. Grade the soil to finish grade with a grader, a small dozer or other suitable equipment.

5. Compact the soil with a vibratory roller. The final compaction should be greater than asphalt (Strive for 100% compaction but always in excess of 95%).

6. Immediately after compacting, apply a topcoat of *DirtGlue* polymer emulsion to seal the road surface. In order to ensure a longer life and superior performance of the application, an additional coat should be applied between twenty four to forty eight hours after completion and then annually as an ongoing maintenance procedure. This topcoat should be applied at a rate of 250 gallons per surface acre.

B. Temporary Light Duty Driving Surface

This type of application will provide acceptable performance when used by cars and light trucks. It is not intended for constant use by heavy-duty trucks and/or tracked construction equipment. Areas that will be used by this type of equipment should be treated as a heavy-duty application as noted above.
Application Rates (per surface acre)

DirtGlue polymer emulsion: 1,200 gallons
Water: 3,600 – 6,000 gallons

Application Process:

1. Loosen the existing soil for a depth of two (2”) inches using a scarifying attachment mounted on a grader (or similar piece of equipment) or a tractor with a roto-tiller or agriculture disk attachment. If additional soil is required, it should be applied and mixed into the existing soil at this time. It is important to loosen the soil to ensure penetration of the DirtGlue/water mixture into the soil.

2. Apply DirtGlue/water mixture to soil using a water truck equipped with a gravity feed drip bar, spray bar, or automated distributor truck. Multiple passes will be necessary to get the desired amount of DirtGlue polymer emulsion for the specific application. Multiple passes will also ensure gradual, thorough saturation of the soil. Do not apply the DirtGlue/water mixture so heavy as to create run-off.

3. Grade the soil to finish grade with a grader, a small dozer or other suitable equipment.

4. Compact with a vibratory roller. The final compaction should be greater than asphalt (Strive for 100% compaction, but always in excess of 95%).

5. Immediately after compacting, apply a topcoat of DirtGlue polymer emulsion to seal the road surface. In order to ensure a longer life and superior performance of the application, an additional coat should be applied between twenty four to forty eight hours after completion and then again annually as an ongoing maintenance procedure.

C. Dust & Erosion Control (Non-driving Areas)

This type of application is intended for pedestrian use only. Vehicular use will break through the skin and adversely affect the performance of the application. Areas that will require any vehicular use should be treated as a light-duty application as noted above or retreated as traffic damage occurs.

Application Rates (per surface acre)

DirtGlue polymer emulsion: 300 gallons (windblown dust control)
600 gallons (bank stabilization, erosion/silt, run-off control)
Water: 2,000 – 6,000 gallons

Application Process

1. Apply DirtGlue/water mixture to existing soil using a water truck equipped with a gravity feed spray bar or tank and pump (i.e. hydro seeder).

2. Add DirtGlue to water rather than water to DirtGlue or place fill hose at bottom of tank, underneath surface of liquid to prevent foaming.
3. When applying DirtGlue/water mixture, dispense large droplets. Avoid any fine mist. The intent is to apply a sheet of liquid onto the soil.

4. It is important to determine the moisture content of the soil prior to starting an application. The moisture content will have an effect on the dilution ratio of the DirtGlue/water mixture. Your DirtGlue representative will assist you in determining the correct dilution ratio for the conditions on your site.

5. Temperature and, to a lesser extent, humidity have a significant effect on curing/drying time. Testing has shown that applications should be done only when the air temperature will be above 50°F for at least 72 hours following the application. Soil temperature must be above 40°F for several days.

6. The DirtGlue application must be protected from the rain until the curing process has formed a skin on the surface. Uncured DirtGlue is water-soluble. If the application is exposed to rain before it has the opportunity to cure, the rainwater will dilute the polymer and wash it out of the soil. If this happens, the application will not be as strong.