



Evolve to the Next Level in Golf Course Construction and Make Golf Greener!

On-Course Solutions (division of Soil Solutions Ltd.)

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Hydrotac is an environmentally safe, specifically formulated highly effective tackifier. It is diluted with water which serves as a carrier agent and when applied to the ground, air and sunlight become the curing agents. **Hydrotac** is a tackifier and soil binder which in effect "tacks" the seed mixture to the surface of the ground until the germination and root growth occurs.

The adhesive properties of **Hydrotac** will act as a tackifier which will bind the grass seed and fertilizer to the surface of the soil providing a breathable membrane while allowing air and water to pass through it in to the ground facilitating the germination of the seed without allowing any negative hydrophobic impact and preventing erosion.

The application rate for hydro seeding is very light and will provide for a very light flexible crust, which will allow the seed to be "tacked" to the soil **with just one application.**

Hydrotac is completely environmentally safe (non-toxic, non-hazardous, safe and easy to apply) and will result in a decrease of the environmental impact of the treated area as **Hydrotac eliminates the need to use other products which according to Audubon International have the following negative ecological effects:**

- Pollution of ground water and surface water caused by use of pesticides, fertilizers and other components
- Poor stream water quality due to eroding shorelines
- Withdrawal of large quantities of water for irrigation
- Degradation or loss of natural areas
- Health hazards from chemical handling and applications
- Negative impacts of chemical use on "Non-target" wildlife

The most exciting and advantageous characteristics of **Hydrotac** include its ability to effectively hydro seed without expensive additives and its ability to actually "reduce" the germination time by retaining soil temperature and moisture.

Case studies carried out at the Jack Nicklaus Serengeti Golf & Wildlife Estate in Johannesburg and the Ernie Els Nondela Drakensberg Mountain Estate confirmed that the **Hydrotac** only had to be applied once, not the normal four to six times as required with normal or traditional hydro seeding procedures. Not only did the seed stay in place after heavy rainfall but also germination took place 2 to 3 days earlier than normal.

Reduce the water usage, your germination time and the environmental footprint of your site by using the most effective and economic hydro seeding solution on the market; **Hydrotac.**



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Nondela Hole 13 Before Application



Nondela Hole 13 After Application



Serengeti Hillside before application



Serengeti Hillside before germination



Hillside before Hydrotac application



Hillside After Hydrotac application

On-Course Solutions Hydrotac Applications

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Hydrotac is applied using a simple pump and spray system that is easily housed on a trailer or in the back of a truck for ease of movement and access to any area. A common adjustable spray nozzle is used to ensure that the required application rate is adhered to. The product is applied over the area using 1 to 2 coats depending on the soil conditions. In circumstances where the area size is large we hire a water truck or hydro seeding machine locally and then connect our hoses and spray nozzles to the pump on the truck and spray accordingly.



When applying **Hydrotac** the only preparation required is the spreading and raking in of the grass seed and fertilizer. All other components of traditional hydro seeding methods are eliminated including hydropam, cotton mulch, wood fiber mulch, stock absorb and organic supplements.



The application of **Hydrotac** provides the added advantages of erosion control and soil stabilization.



Green on hole 1 at Nondela



Bunker Complex Hole 4 Nondela



Bunker Complex Hole 13 Nondela