



SOILTAC[®]

Topical Water Retention Basin & Pond Lining Application Overview

1.) Prepare the Site:

Dry Soil: The site should be completely dry and free from water.

Weather: The site must be free from rain for a minimum of 72 hours after the application.
 Temperature must be at least 40°F (4°C).

Compaction: Compact the site to a minimum of 95%.
 (per ASTM D 698 D 1557 modified Proctor Density).

Loose Aggregate: Remove any loose aggregate, soil or debris from the treatment area.

2.) Prepare Application Equipment

Spray Nozzles: Set spray nozzles to the desired width, height and output rate.
 Test equipment (off-site) if necessary.

Coverage: The spray nozzles should provide an even coat over the treatment area with each pass.

Spray Rate: Set the spray rate high enough to allow even coverage with multiple coats and low enough to prevent material from draining away from the treatment area.

Release Agent (Optional): Optionally, a form release agent (like Durasoil[®]) can be sprayed onto the equipment to prevent Soiltac[®] overspray from adhering onto the outside of the equipment

3.) Prepare the Soiltac[®] Dilution:

Water: Fill the application equipment with the recommended volume of water.
 Reference the "application coverage rates" chart.

Example: Water Retention Basin & Pond Lining = 20 ft²/gallons (0.5m²/liter) +2 parts water.

Equipment: 4,000 gallon (15,142 liters) water truck

Calculation: 2+1 = 3 parts dilution total.

4,000 gallons / 3 parts = 1,333 gallons (5,050 liters) per part

Volume of Water: 1,333 gallons X 2 parts = 2,670 gallons (10,100 liters) of water

Volume of Soiltac[®]: 1,333 gallons X 1 part = 1,333 gallons (5,050 liters) of Soiltac[®] concentrate

Volume of Dilution: 1,333 gallons X 3 parts = 4,000 gallons (15,142 liters) of Soiltac[®] dilution

Soiltac[®]: Fill the application equipment with the recommended volume of Soiltac[®] concentrate.

Foaming: To prevent foaming, add the Soiltac[®] concentrate last, directly into the water.

4.) Apply the Soiltac[®] Dilution

Multiple Coats: Apply the Soiltac[®] dilution in coats over the treatment area.

Example: (See Above) Water Retention & Pond Lining typically require a minimum of 6 coats.

1,333 gallons / 6 coats = 222 gallons (840 liters) (Soiltac[®] concentrate) per coat.

4,000 gallons / 6 coats = 667 gallons (2,520 liters) (Soiltac[®] dilution) per coat.

1,333 gallons (Soiltac[®] concentrate) X 20 ft²/gal. = 26,667 ft² (2,480 m²) treatment per water truck

Drying: Each successive coat of Soiltac[®] dilution should be applied in a timely manner to ensure that the surface always stays wet with the Soiltac[®] dilution. DO NOT allow the Soiltac[®] dilution to dry between the application coats. Failure to do so will result in an underperforming "skin" layer rather than a penetrating layer.

5.) Clean the Application Equipment

Rinse: Rinse off all application equipment thoroughly with water until clean. If Soiltac[®] is allowed to dry and cure use a hot pressure washer or steam cleaner and brush to remove residue.

Traffic: Prevent any human activity over the treated area.

Curing: Allow the treated area to dry and cure for approximately 24 hours (@70°F/21°C).