

## SOILTAC<sup>®</sup>

### Topical Golf Course Bunker Stabilization 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).

**Drainage:** Contour the site and drainage channels to provide for proper drainage. For optimal results, steep slopes must be aerated (with a pitchfork or similar) to maximize penetration depth and serve as stabilization anchor points.

**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.

**Pre-Wetting (Optional):** Optimally, pre-wet the treatment area with water (only) to break the surface tension and increase penetration depth. Pre-wet at a rate of 100 SF/gallon (2.5m<sup>2</sup>/liter) of water.

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

#### 3.) Prepare the Soiltac<sup>®</sup> Dilution:

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

**Example:** Golf Course Bunker Liner = 50 ft<sup>2</sup>/gallons (1.2m<sup>2</sup>/liter) +5 parts water.

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

**Calculation:** 5+1 = 6 parts dilution total.

4,000 gallons / 6 parts = 667 gallons (2,520 liters) per part

Volume of Water: 667 gallons X 5 parts = 3,333 gallons (12,620 liters) of water

Volume of Soiltac<sup>®</sup>: 667 gallons X 1 part = 667 gallons (2,520 liters) of Soiltac<sup>®</sup> concentrate

Volume of Dilution: 667 gallons X 6 parts = 4,000 gallons (15,142 liters) of Soiltac<sup>®</sup> dilution

**Soiltac<sup>®</sup>:** Fill the application equipment with the recommended volume of Soiltac<sup>®</sup> concentrate.

**Foaming:** To prevent foaming, add the Soiltac<sup>®</sup> concentrate last, directly into the water.

#### 4.) Apply the Soiltac<sup>®</sup> Dilution

**Multiple Coats:** Apply the Soiltac<sup>®</sup> dilution in coats over the treatment area.

**Example:** (See Above) Golf Course Bunker typically require a minimum of 3 even coats.

667 gallons / 3 coats = 222 gallons (840 liters) (Soiltac<sup>®</sup> concentrate) per coat.

4,000 gallons / 4 coats = 1,000 gallons (3,785 liters) (Soiltac<sup>®</sup> dilution) per coat.

667 gallons (Soiltac<sup>®</sup> concentrate) X 50 ft<sup>2</sup>/gal. = 33,333 ft<sup>2</sup> (3,100 m<sup>2</sup>) treatment per water truck

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

**Drainage Systems:** For optimal results, Soiltac<sup>®</sup> must be applied prior to installing a drainage system to completely seal the bunker (and seal the drainage channels). If the bunker has an existing drainage system, DO NOT apply Soiltac<sup>®</sup> over the existing drainage areas or allow any Soiltac<sup>®</sup> to run-off into the drainage areas.

#### 5.) Clean the Application Equipment

**Rinse:** Rinse off all application equipment thoroughly with water until clean. If Soiltac<sup>®</sup> 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 until backfilled and covered with sand.

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