



# STRUCTURAL SOIL UTELITE STRUCTURAL SOIL FOR TURF & FIRE LANES

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## PART 1: GENERAL

### A. STRUCTURAL SOIL MIX FOR TURF AND FIRE LANES

A. Utelite 'Fines' Expanded Shale	60%
B. Sand or Sandy Soil	30%
C. Peat or Approved Equal	10%

Percentages may vary to meet testing requirements

### B. **Minimum finished depth shall not be less than 8" (eight inches) deep.**

## PART 2: COMPONENTS

- A. Utelite 'Fines' Rotary Kiln Expanded Shale
- B. Sand or Sandy Soil
- C. Peat Moss or Approved Equal

## PART 3: MIXING PROCEDURE

1. Mechanically mix the sand and peat thoroughly.
2. Saturate the Utelite 'Fines' Expanded Shale with water and mechanically mix 3 parts Utelite 'Fines' with 2 parts dry sand/peat blend until the Utelite particles are completely coated.
3. When stockpiling the finished mix, cover the pile with a tarp to prevent drying out and separation from rain.
4. Install the mix within 48 hours of mixing.

## PART 4: PLACEMENT

1. Prepare the subgrade by removing all organic matter, debris, loose material and large rocks. Dig out soft or mucky spots and replace with suitable material. Uniformly compact the subgrade to 95% of its maximum dry density.
2. Place Turf Structural Soil over compacted subgrade.

3. The Turf Structural Soil shall be placed in 8 inch uniform lifts over the entire area of the project. Each lift should be compacted to provide a finished lift of 8 inches. Construction equipment, other than for compaction, shall not operate on the exposed Turf Structural Soil.
4. Final compacted depth of mix shall not be less than 8 inches deep.

### **COMPACTION**

1. Use of portable vibratory plate compacting machine (Recommended).
  - a. Place Turf Structural Soil in horizontal lifts not exceeding 8-10 inches of compacted depth. Use of minimum of four passes, of not less than 10 seconds per pass, before moving to the next adjacent location. Additional passes may be required and should be determined in the field by the engineer to insure stability of the layer. Continue placing and compacting 8" lifts until the specified depth is reached.
2. Use of vibratory steel roller for large areas.
  - a. For large areas, a vibratory steel roller weighing no more than 12 tons static weight can be used. Horizontal lifts should not exceed 10" compacted. The minimum number of passes is two and maximum number is four. Additional passes may be required and should be determined in the field by the engineer to insure stability of the layer.

### **SOD INSTALLATION**

1. Sod grown in sand based soil is recommended for this application.
2. Place sod on Turf Structural Soil as specified by landscape architect.
  - a. Optional – The placement of a 1" to 2" root zone layer might be required for seeding or sod establishment. The root zone layer is placed over the finished and compacted Turf Structural Soil and should not exceed a depth of 2".