

Example Infield Spec – Calcined Clay

SECTION 02365

CALCINED CLAY SOIL CONDITIONERS

PART 1: GENERAL

1.01 SUMMARY

- A. This section specifies a roto-tilled, nail dragged or topdressed application of calcined clay soil conditioners for [baseball skinned infields.] [football fields.] [soccer fields.] [baseball turf areas]
- B. Related Sections: Other Specification Sections which directly relate to the work of this Section include, but are not limited to, the following:
 - 1. Section 02300 – Earthwork, establishment
 - 2. Section 02340 – Soil Stabilization
 - 3. Section 02360 – Soil Treatment
 - 4. Section 02790 – Athletic and Recreational Surfaces
 - 5. Section 02880 – Play Field Equipment and Structures
 - 6. Section 02920 – Lawns and Grasses

1.02 SUBMITTALS

- A. Product Data: Submit manufacturer's product data and installation instructions. Include required substrate preparation, list of materials and application rate.

1.03 DELIVERY, STORAGE, AND HANDLING

- A. Deliver materials and products in factory labeled packages. Store and handle in strict compliance with manufacturer's instructions and recommendations.

PART 2: PRODUCTS

2.01 ACCEPTABLE MANUFACTURER

- A. PROFILE Products LLC, 750 Lake Cook Rd Suite 440, Buffalo Grove, IL 60089; Tel. (800) 207-6457; Fax. (847) 215-0577

2.02 MATERIALS

- A. Calcined, Illite and Silica Clay: TURFACE[®] MVP[®], TURFACE[®] Quick Dry[®] and

TURFACE® Pro League® Sport Field Conditioners by PROFILE Products LLC, with the following characteristics:

1. Materials: A calcined, non-swelling illite and silica clay
2. Porosity: Total 74%, with 39% Capillary and 34% Non Capillary
3. pH range: 7.0 ± 2.5
4. CEC: 33.6 mEq/100g
5. Particle Stability: Sulfate Soundness testing (ASTM C-88) not more than 4% loss over 20 years
6. Bulk Density: 34 ± 2 lb/ft₃
7. Color Range: Red, Tan, Gray
8. Packaging: 50 pound valve bags, 2,000 super sacks, Bulk Ton Dump Loads

PART 3: EXECUTION

3.01 SUBSTRATE PREPARATION

- A. Examine substrates and conditions where materials will be applied. Do not proceed with installation until unsatisfactory conditions are corrected.

3.02 INSTALLATION

- A. Strictly comply with manufacturer's installation instructions and recommendations. Install materials at the following application rates:

INSTALLATION: Use the following formula to determine the amount of TURFACE® to incorporate into the skinned infield mix. Infield mixes should be amended at 20 percent by volume, 4 inches deep.

1. Use the following formula to calculate the amount of TURFACE needed to amend the soil:
Take the square feet of the area to be amended multiplied by the depth in inches you wish to amend the soil and divide by 12 to obtain the cubic feet of soil. Divide the cubic feet of soil by 27 to obtain the cubic yards of soil. ($sq\ ft \times 4\ inches / 12 = cu\ ft$
 $/27 = cu\ yds$)
2. Take the cubic yards of soil and multiply by the percent of amendment desired (20% = .2) = volume of amendment needed measured in cubic yards ($cu\ yds \times \% \text{ of amendment desired} = cu\ yds \text{ of amendment}$)
3. Cubic yards of amendment multiplied by the bulk density of the amendment equals cubic yards in pounds. Take the pounds divided by 2,000 = Tons required to amend the soil
4. ($cu\ yd \times bulk\ density\ in\ pounds\ per\ cu\ yd / 2,000 = Tons\ of\ amendment\ required$)
5. For example: To determine the amount of TURFACE required to amend an infield skinned area of 9,000 square feet at a depth of 4 inches at a 20 percent volume:
6. $9,000\ sq\ ft \times 4/12 = 3,000\ cu\ ft$ divided by 27 = 111.11 cu yds of mix
7. $111.11\ cu\ yds \times .2 = 22.22\ cu\ yds$ of amendment
8. $22.22 \times 945\ lbs\ per\ cu\ yd = 20,999\ lbs$ divided by 2,000 = **10.49 tons of TURFACE**

9. Blend 189 pounds. TURFACE per finished cubic yard of soil to achieve 20 percent by volume

3.03 CLEANING AND PROTECTION

END OF SECTION

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