



SECTION 2

HILLTOPPER® MOUND AND HOMEPLATE CLAY – BASEBALL APPLICATIONS

PART 1 - GENERAL

1.1 SUMMARY

- A. This section includes material and labor requirements for construction with Hilltopper® Mound Clay for the following items:
1. Mounds
 2. Homeplate Areas including batter's boxes
- B. Related Sections:
1. Section 02100 – Site Preparation
 2. Section 02200 – Earthwork
 3. Section 02230 – Granular Materials

1.2 PERFORMANCE REQUIREMENTS

- A. The following standards and definitions are applicable to the work of this Section to the extent referenced herein:
1. ASTM: American Society for Testing and Materials.

1.3 SUBMITTALS

- A. Products Data: Must be approved by Landscape Architect and owner.
- B. Shop Drawings: Show details of installation, including plans and sections.

1.4 PROJECT/SITE CONDITIONS

- A. Field Measurements: Each bidder is required to visit the site of the Work to verify the existing conditions. No adjustments will be made to the Contract Sum for variations in the existing conditions.
1. Where surfacing is indicated to fit with other construction, verify dimensions of other construction by field measurements before proceeding with the work.
- B. Environmental Limitations: Store in a moderate temperature. Hilltopper® Mound Clay can form clods in cold weather. If clods form, set material outside in the sun until it becomes pliable.

1.5 QUALITY ASSURANCE

- A. Installer Qualifications: Installer to provide evidence to indicate successful experience building mounds, Hilltopper® Mound Clay, or approval by manufacturer.

1.6 WARRANTY

- A. General Warranty: The special warranty specified in this Article shall not deprive the Owner of other rights the Owner may have under other provisions of the Contract Documents and shall be in addition to, and run concurrent with, other warranties made by the Contractor under requirements of the Contract Documents.
- B. Special Warranty: Submit a written warranty executed by the installer agreeing to repair or replace components of Hilltopper® Mound Clay surfacing that fail in materials or workmanship within the specified warranty period. Failures include, but are not limited to, the following:
 - 1. Premature wear and tear, provide the material is maintained in accordance with manufacturer's written maintenance instructions.
 - 2. Failure of system to meet performance requirements.
- C. Warranty Period: Contractor shall provide warranty that product was installed per specifications upon completion of install.

PART 2 - PRODUCTS

2.1 MANUFACTURERS

- A. Hilltopper® Mound Clay is provided by the following manufacturer:
 - 1. Stabilizer Solutions, Inc. 33 South 28th St., Phoenix, AZ 85034; phone (602) 225-5900, (800) 336-2468; fax (602) 225-5902; website stabilizersolutions.com; email info@stabilizersolutions.com

2.2 MATERIALS

- A. Hilltopper® Mound Clay
 - 1. Proprietary blend of natural clay and polymer that does not require water to activate it.
 - 2. Acceptable local supplier list to be provided by Architect.
- B. Tools
 - 1. Tamp, rake, hose; general field maintenance tools.

2.3 BLENDING

- A. Hilltopper® Mound Clay is a solely owned and patented process.
- B. Blending procedures are performed only by a licensed Hilltopper® Mound Clay blender and is only sold through licensed Hilltopper® Mound Clay dealers.

2.4 EXCESS MATERIALS

- A. Provide owner's authorized rep. with the following excess materials for use in future mound or homeplate area repair: 50-lb bags of Hilltopper® Mound Clay.

PART 3 - EXECUTION

3.1 PREPARATION

- A. Proper base preparation is essential in the performance of Hilltopper® Mound Clay. Hilltopper® Mound Clay drains laterally off of surface. Base material should be leveled or laser graded to same grade as rest of field.
- B. Pre-soak base material prior to installing Hilltopper® Mound Clay and allow to dry. Then compact base to 95% compaction.

3.2 BASEBALL MOUND - NEW BUILD

- A. Youth / Little League (9-12 yrs old)
 - 1. Approximate quantity
 - a. 1 to 2-tons Hilltopper® Mound Clay
 - 2. Layout of Circle
 - a. Measures: 5' radius / 10' diameter
 - b. Center of circle: 45' 2" from back tip of home plate
 - 3. Layout of Mound
 - a. Height of mound: 6" above homeplate or infield grass.
 - b. Distance of back tip of home plate to front of pitching rubber: 46'
 - c. Begin by building platform for pitching rubber first with Hilltopper® Mound Clay.
 - d. Place material in 2" lifts and compact using a hand tamp until desired height is achieved.
 - 4. Platform
 - a. Build a flat top around pitcher's rubber.
 - b. Generally platform measures 26" in length X 42" wide.
 - c. The platform should extend 4" in front of the rubber and 17" in back of rubber.
 - d. The platform should extend 12" on either side of the rubber.
 - 5. Mound Gradation
 - a. Start sloping area in front of platform downwards 4" in front of the pitching rubber.
 - b. From platform mound extends 6' towards homeplate.
 - c. Front Slope: for each 1' distance, the grade should drop 1"
 - d. Gradually slope the rear of mound from the back of pitching mound to the circle's edge.
- B. Pony / Middle School (13-14 yrs old)
 - 1. Approximate material needed
 - a. 3 ½ tons Hilltopper® Mound Clay
 - 2. Layout of Circle
 - a. Measures: 7.5' radius / 15' diameter
 - b. Center of circle: 52' 8" from back tip of home plate
 - 3. Layout of Mound
 - a. Height of mound: 8" above homeplate or infield grass
 - b. Distance from back tip of homeplate to front of pitching plate: 54'
 - c. Begin by building platform for pitching rubber first with Hilltopper® Mound Clay.
 - d. Place material in 2" lifts and compact using a hand tamp until desired height is achieved.
 - 4. Platform
 - a. Build a flat top around pitcher's rubber.

- b. Generally platform measures 32” in length and 54” wide.
 - c. The platform should extend “ in front of rubber and “ in back of rubber.
 - d. The platform should extend “ on either side of the rubber.
5. Mound Gradation
- a. Start sloping area in front of platform downwards 6” in front of the pitching rubber.
 - b. From platform the mound extends ‘ towards homeplate.
 - c. Front Slope: for each 1’ distance, the grade should drop 1”
 - d. Gradually slope the rear of mound from the back of pitching mound to the circle’s edge

C. Regulation

- 1. Approximate material
 - a. 4 to 7-tons Hilltopper® Mound Clay
- 2. Layout of Circle
 - a. Measures: 9’ radius / 18’ diameter
 - b. Center of circle: 59’ from back tip of homeplate
- 3. Layout of Mound
 - a. Height of mound: 10” above homeplate or infield grass
 - b. Distance from back tip of homeplate to front of pitching rubber: 60’6”
 - c. Begin by building platform for pitching rubber first with Hilltopper® Mound Clay.
 - d. Place material in 2” lifts and compact using a hand tamp until desired height is achieved.
- 4. Platform
 - a. Build a flat top around pitcher’s rubber.
 - b. Generally platform measures 36” in length and 60” in width.
 - c. The platform should extend 6” in front of the rubber and 23” in back of rubber.
 - d. The platform should extend 18” on either side of the rubber.
- 5. Mound Gradation
 - a. Start sloping area in front of platform downwards 6” in front of the pitching rubber.
 - b. From platform mound extends 10’ towards homeplate.
 - c. Front Slope: for each 1’ distance, the grade should drop by 1”.
 - d. Gradually slope the rear of mound from the back of pitching mound to the circle’s edge.

3.2 BASEBALL MOUND – EXISTING MOUND

- A. Measurements and Installation are the same as “3.3 Baseball Mound – New Build”

3.3 BASEBALL HOMEPLATE AREA – NEW BUILD

- A. Set homeplate and square it with the pitching rubber.
- D. Homeplate area: (Including batter’s and catcher’s areas) Excavate an 8’ X 13’ area to a 3” to 4” depth (approximately: 45 / 50-lb bags).
- E. Batter’s box installation: Excavate a 4’ X 7’ area to a 3” to 4” depth.
- F. Catcher’s area: Excavate a 4’ X 6’ area to a 3” to 4” depth.
- G. Place Hilltopper® Mound Clay in excavated areas in 1 ½” to 2” lifts. Tamp to compact. Repeat process with each layer.
- H. Cover area with infield mix. (Optional)

3.6 BASEBALL HOMEPLATE AREA – EXISTING

- A. Measurements and Installation are the same as “3.3 Baseball Homeplate Area – New Build.”

3.7 INSPECTION

- A. Finished shall be uniform, solid under foot. Hilltopper® Mound Clay shall be firm to full depth with no soft areas.

3.8 MAINTENANCE

A. Weekly

1. Do not contaminate Hilltopper® Mound Clay with outside soils, it will compromise performance.
2. Field Lines- It is recommended to use field spray paint over marking chalk.
3. It is recommended not to use calcigned clay or other amendments with Hilltopper® Mound Clay.
4. Remove debris, such as paper, grass clippings, leaves or other organic material by mechanically blowing, hand raking, or sweeping the surface as needed.

B. Yearly

1. Add new Hilltopper® Mound Clay as needed.

3.9 REPAIRS

- A. To patch wear spots thoroughly sweep out the existing material.
- B. Use a shovel to chop the existing Hilltopper® Mound Clay to score it so it will bond with the new material.
- C. Do not re-pack used Hilltopper® Mound Clay into damaged areas, pack new Hilltopper® into the hole.
- D. Tamp until firmly compacted.

END OF SECTION 2