

TEGRA SEAL INSTALLATION GUIDELINES

Done Once. Done Right.

Deck, Tunnels, Planters

TegraTite is a two-component waterproofing membrane that combines the swelling properties of bentonite clay with the strength and protection of virgin HDPE sheets to form a self-sealing waterproofing membrane. The tough HDPE membrane provides the primary waterproofing envelope while the bentonite provides the self-sealing characteristics, even under hydrostatic conditions, necessary for a complete waterproofing system. Because both bentonite and the HDPE membrane are very stable, TegraTite waterproofing is expected to provide the ultimate in long-lasting protection for your building.

GENERAL INSTRUCTIONS

- a. Protect TegraTite from rain and elements—keep covered until installed.
- b. Ensure storage area is free from standing water and properly drained.
- c. TegraTite may be installed over uncured, damp or frozen surfaces.
- d. Parge coating is not required unless the substrate is extremely rough and irregular.
- e. Remove protrusions on the concrete substrate above $\frac{3}{4}$ ”; or fill void over $\frac{3}{4}$ ” in depth.
- f. Use a safety knife to cut and trim the TegraTite.
- g. Install TegraTite with bentonite towards the concrete and the green HDPE side facing the installer around the entire below grade envelop.
- h. Tape the seams with TegraSeal Seam Tape.
- i. Cover installation with clean backfill as soon as possible (if to be left exposed for extended periods, cover with suitable protection; ie., board or insulation).

PREPARATION:

1. Concrete deck/wall/substrate
 - a. Remove all sharp protrusions, mud, debris, ice or any other materials that would interfere with TegraTite’s performance.
 - b. Cover any exposed reinforcing steel.
 - c. In the case of masonry walls, strike flush all joints scheduled to receive TegraTite. (Contact TegraSeal for recommendations on specific projects.)
2. Trowel TegraSeal Mastic or mortar into all the holes, honeycombs, voids or irregularities that exceed $\frac{3}{8}$ ” in depth. **Note:** TegraSeal Mastic should not be used as a full-wall trowel grade waterproofing.
3. Penetrations.
 - a. Fill extra space with TegraSeal Granular Pack or TegraSeal Mastic.
 - b. Trowel TegraSeal Mastic to cover penetration.
 - c. Cut TegraTite strip: 6” wide x pipe circumference plus 2” overlap. Every 1”, cut 3” flanges across the TegraTite strip (Figure 1).
 - d. Wrap the strip around the pipe with flanges spreading out on the wall
 - e. Hold the collar with pipe clamp or Seam Tape and/or fasteners.
4. Drain Pipes (Detail 0203-60)
 - a. Fill any void with TegraSeal Mastic or Bentonite Granular Pack.
 - b. Cut out the inside diameter of the drain bowl in the center of a 2’ x 2’ square of HDPE. Place over drain bowl.

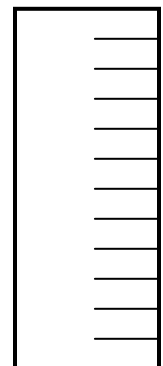


Figure 1

- c. Clamp flashing collar into place and bolt down the adjustable strainer.
5. Use double layer of TegraTite membrane over construction joints (Details 0203-30) with backfill cover or with pavers.
6. Sweep deck clean.
7. Contact TEGRASEAL whenever conditions of acid, alkali, or salt brine exist.

TEGRATITE INSTALLATION:

8. Pour a 2" cant of TegraSeal Granular Pack at vertical/horizontal transitions.
9. Unroll TegraTite membrane on the deck with the bentonite side towards the concrete substrate, starting from the lowest points and moving to the highest points. Overlap and stagger the seams 1½" to 3" (Detail 0203-10).
10. Overhang horizontal to vertical transition with 6" of TegraTite (or past the construction joint) (Detail 0203-20).
11. For inside corners:
 - a. Cut vertical slice in the TegraTite at the footing and fold overlap in the corner.
 - b. Secure with a nails.
12. For outside corners against the deck:
 - a. In a 8" x 8" square of TegraTite, cut out two triangles leaving a 2" x 4" strip from the center toward one edge and two additional flanges (Figure 2).
 - b. Secure the square at the outside corner.
 - c. Cut vertical slice in the TegraTite membrane at the footing and fold around corner.
 - d. Secure flaps with nails.
13. For outside corners:
 - a. Cut vertical slice in the TegraTite at the corner and fold overlap in the corner.
 - b. Secure with a nails.
14. Tape all seams with TegraSeal Seam Tape as shown.
15. Terminate TegraTite at finished grade with a continuous strip of TegraSeal Termination Bar nailed every 12" O.C.
Note: Make certain that waterproofing extends up to or above finish grade.
16. Complete installation at penetrations by cutting out a circle the diameter of the pipe in the center of a 2' x 2' square of TegraTite. Cover the pipe penetration with the TegraTite square (if necessary, cut slit in center circle) and fasten. Tape the seam and the penetration with TegraSeal Seam Tape.

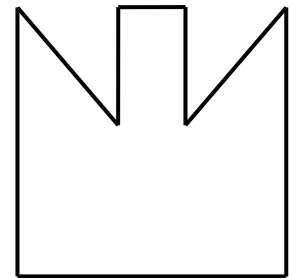


Figure 2

COVER:

17. TegraTite seldom requires additional protection unless the backfill contains substantial amounts of lava rock, basalt, or any other coarse or highly abrasive materials. (Contact TegraSeal for recommendations if voids of ¾" or larger are trapped against walls.)
18. Even though the HDPE side of TegraTite protects it from weather and subsequent trades, it is still advisable to place and compact backfill as soon as possible after installation.
19. Compact backfill to at least 85% Modified Proctor Density.