



INSTALLATION GUIDELINES

Typical Free Standing Wall

TegraTite is a two-component waterproofing membrane that combines the swelling properties of bentonite with the strength and protection of 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 from the base of the footing to the grade line.
- 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:

2. Concrete 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.)
3. 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.
4. Penetrations. (Detail 0701-40)
 - a. Fill extra space with TegraSeal Granular Pack or TegraSeal Mastic.
 - b. Trowel TegraSeal Mastic to cover penetration.
 - c. Cut TegraTite strip 6" width by 2" greater than pipe circumference.
 - d. Every 1" Cut a 3" flange across the TegraTite strip (Figure 1).
 - e. Wrap the strip around the pipe with flanges spreading out on the wall
 - f. Hold the collar with pipe clamp or Seam Tape and/or fasteners.
5. Prepare all expansion joints per manufacture's recommendations.

Note: Construction cold joints require no special preparation.
6. Sweep footing ledge clean.
7. Contact TEGRA SEAL whenever conditions of acid, alkali, or salt brine exist.

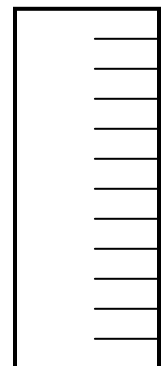


Figure 1

INSTALLATION:

8. Install a continuous 2" cant of TegraSeal Granular where wall meets footing (Detail 0701-30).
9. Install a continuous 1" vertical cant of TegraSeal Mastic at all vertical corners prior to installing TegraTite (Detail 0701-60).
10. TegraTite is installed from the base of the footing to the grade line with the bentonite side towards the concrete substrate (Detail 0701-30).
11. TegraTite may be installed with a combination of either vertical or horizontal seams (Figures 0701-10 and 0701-20).

Vertical Installation (Figure 0701-10)

- a. Install TegraTite with nails and washers 15" O.C within 1" from horizontal seam.
- b. Overlap vertical seams at least 1½" and secure with nail and washer every 24" to 48" O.C.
- c. Cover the nails and tape all vertical seams with TegraSeal Seam Tape as shown.

Horizontal Installation (Figure 0701-20)

- a. Install TegraTite with nails and washers 24" O.C within 1" from horizontal seam.
Note: Shingle overlap the upper sheet over on the lower sheet at least 1½" with staggered vertical seams (Detail 0701-70 and 0701-71).
 - b. Overlap vertical seams at least 1½" and secure with a nail and a washer at 20" O.C.
 - c. Cover the nails and tape all vertical seams with TegraSeal Seam Tape.
12. For inside corners: (Detail 0701-60)
- a. Cut vertical slice in the TegraTite at the footing and fold overlap in the corner.
 - b. Secure with a nail.

13. For outside corners: (Detail 0701-61)

- 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.

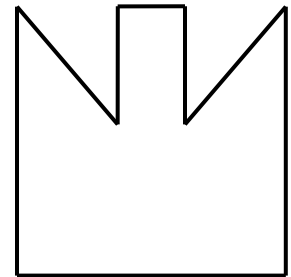


Figure 2

14. Terminate TegraTite at finished grade with a continuous strip of TegraSeal Termination Bar nailed every 12" O.C. (Details 0701-50).
Note: Make certain that waterproofing extends up to or above finish grade.
15. 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 (Detail 0701-40). Tape the seam and the penetration with TegraSeal Seam Tape.

BACKFILL:

16. 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 air voids of ¾" or larger are trapped against walls.)
17. 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.
18. Compact backfill to at least 85% Modified Proctor Density.