

Typical Free-Standing Wall

TegraTite and TegraTite Plus are two-component waterproofing membranes that combine 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 provide the self-sealing characteristics essential for a complete waterproofing system, even under hydrostatic conditions. Because both bentonite and the HDPE membrane are very stable, the TegraTite/Plus waterproofing system are expected to provide the ultimate in long-lasting protection for your structure.

GENERAL INSTRUCTIONS

- a. Protect TegraTite/Plus from rain and elements—keep covered until installed.
- b. Ensure storage area is free from standing water and properly drained.
- c. Contact TegraSeal whenever conditions of acid, alkali, or salt brine exist.
- d. Use in conjunction with TegraStop WaterStop.
- e. TegraTite/Plus may be installed over uncured, damp or frozen surfaces.
- f. Parge coating is not required unless the substrate is extremely rough and irregular.
- g. Remove protrusions on the concrete substrate above $\frac{3}{8}$ ”; or fill void over $\frac{3}{8}$ ” in depth.
- h. Install TegraTite/Plus with bentonite towards the concrete from the footing to the grade line.
- i. Tape the seams with TegraSeal Seam Tape or with TegraSeal Bitumen Tape.
- j. Cover installation with clean backfill as soon as possible (if to be left exposed for extended periods, cover with suitable protection; ie., protection board or insulation).

PREPARATION:

2. Concrete Wall/Substrate
 - a. Remove all sharp protrusions, mud, debris, ice or any other materials that would interfere with the performance of TegraTite/Plus.
 - b. Cover sharp concrete corners 12” of TegraTite/Plus.
 - c. In the case of masonry walls, strike flush all joints scheduled to receive TegraTite/Plus. (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 0201-30)
 - a. Fill extra space with TegraSeal Granular Pack or TegraSeal Mastic.
 - b. Trowel TegraSeal Mastic to cover penetration.
 - c. Cut TegraTite/Plus strip: 6” wide to wrap around the pipe .
 - d. Every 1”, cut a 3” flanges across the TegraTite/Plus 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. Construction cold joints require no special preparation. **Note:** TegraSeal Products is not responsible for the expansion joint.

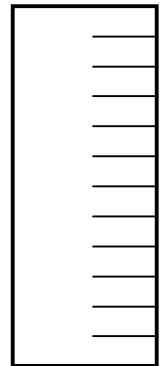


Figure 1

INSTALLATION:

6. Install a continuous 2" cant of TegraSeal Granular on clean footing ledge at vertical to horizontal transitions (Detail 0201-20). Install a continuous 1" vertical cant of TegraSeal Mastic at all vertical corners prior to installing TegraTite/Plus (Detail 0201-60).
7. TegraTite may be installed with a combination of either vertical or horizontal seams from the footing to the grade line with bentonite towards the concrete substrate (Details 0201-10).

Vertical Installation (Detail 0701-10)

- a. Install TegraTite with nails and washers 12" O.C within 1" from the top horizontal edge.
- 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 (Detail 0701-10)

- a. Install TegraTite with nails and washers 24" O.C within 1" from the top horizontal edge.
 - b. Shingle overlap the upper sheet over on the lower sheet at least 1½"
 - c. Stagger the vertical seams with at least 1½" overlap and secure with a nail and a washer at 20" O.C. (Details 0201-70 and 0201-80).
 - d. Cover the nails and tape seams with TegraSeal Seam Tape or TegraSeal Bitumen Tape.
8. For inside corners: (Detail 0201-60)
- a. Cut vertical slice in the TegraTite at the footing and fold overlap in the corner.
 - b. Secure with a nail.
9. For outside corners: (Detail 0201-50)
- 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. After pouring Granular Pack cant, secure the square tightly at the outside corner with the center strip on the corner.
 - c. Cut a short vertical slice in the TegraTite/Plus membrane at the footing and fold around corner.
 - d. Secure flaps with nails.

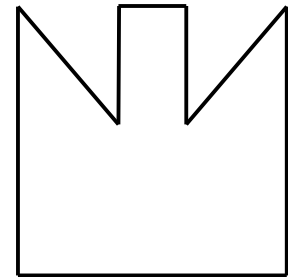


Figure 2

10. Terminate TegraTite/Plus at finished grade with a continuous strip of TegraSeal Termination Bar nailed every 12" O.C. (Details 0201-40). **Alternative:** TegraSeal Concrete Primer and TegraSeal Bitumen Tape are an acceptable termination.
11. Complete installation at penetrations by cutting an 8-point star (or pie wedges) the diameter of the pipe in the center of a 2' x 2' square of TegraTite. Cover the pipe penetration with the TegraTite square and fasten (Detail 0201-30). Tape the cover seams with TegraSeal Seam Tape.

BACKFILL:

12. 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.)
13. 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.
14. Compact backfill to at least 85% Modified Proctor Density.