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# SELF-ADHERING SHEET MEMBRANE

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## Section 071326 Self-Adhering Sheet Waterproofing

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### MANUFACTURER'S GUIDE SPECIFICATION

#### PART 1 – GENERAL

##### 1.01 GENERAL

POLY WALL SELF-ADHERING SHEET MEMBRANE is a sheet waterproofing product for application on residential subterranean concrete and concrete masonry (CMU) foundation walls.

##### 1.02 RELATED SECTION

Concrete – Section 03300  
Masonry – Section 04500  
Self-Adhering Sheet Waterproofing - Section 071326

##### 1.03 DESCRIPTION

**Surface Treatment:** Provides a barrier to water and water as vapor infiltration. Cold-weather application down to 10°F is possible with the use of POLY WALL Quick Grip Building Envelope Adhesive. POLY WALL SELF-ADHERING SHEET MEMBRANE consists of high-strength polyethylene film laminated to a layer of rubberized asphalt. The product is available in a 25-, 40-, or 60-mil thickness; is applied to the exterior side of the cavity wall surface from roof line to grade line; and is tied into the waterproofing, windows, doors and other penetrations. Color is light gray.

##### 1.04 QUALITY ASSURANCE

Manufacturer is specialized in the technology of surface protection coatings and barriers.

##### 1.05 SUBMITTALS

Submit POLY WALL data and Manufacturer's installation recommendations as required in Division 1 - Submittals.

##### 1.06 ENVIRONMENTAL REQUIREMENTS

Ambient temperatures should be considered at the time of application. POLY WALL SELF-ADHERING SHEET MEMBRANE shall be applied at temperatures of 45°F to

100°F. Application below 45°F requires additional adhesion support. POLY WALL Quick Grip Building Envelope Adhesive can be used to increase the low temperature application possibilities. Applications below 32°F shall continue only after surfaces are frost/ice free.

##### 1.07 DELIVERY, STORAGE AND HANDLING

- A. Delivery, storage, and handling of POLY WALL products shall be the responsibility of the trained Qualified Installer.
- B. POLY WALL SELF-ADHERING SHEET MEMBRANE should not be stacked higher than 5 feet vertically nor double stacked on pallets. Store materials in a cool area away from direct sunlight.
- C. Store all POLY WALL materials in a dry place.

##### 1.08 WARRANTY

All POLY WALL products are warranted to be free of manufacturer's defects for a period of five (5) years. Contact Polyguard Products, Inc. for further information.

#### PART 2 – PRODUCTS

##### 2.01 MANUFACTURER

Approved Manufacturer shall be:

Polyguard Products, Inc.  
Ennis, TX 75119  
(800) 846-3020  
[www.poly-wall.com](http://www.poly-wall.com)

##### 2.02 MATERIAL

POLY WALL SELF-ADHERING SHEET MEMBRANE is a strong, self-adhesive sheet consisting of high-density polyethylene film laminated to a uniform thickness of rubberized asphalt.

POLY WALL Stretch is the primer for POLY WALL SELF-ADHERING SHEET MEMBRANE.

Moisture & air stop here.



POLY WALL Fiber Flash is a sealer that applies like caulk or spackle with a broadknife.

### PART 3 – EXECUTION

#### 3.01 EXAMINATION

Prior to application to the wall surface, the surface to receive POLY WALL Self-Adhering membrane shall be inspected by the Owner or Owner's Representative to establish that the surfaces to be covered are in accordance with contracts for allied trades.

- A. By application of POLY WALL SELF-ADHERING SHEET MEMBRANE, the Manufacturer does not accept the quality of the wall as to individual components, the structural integrity of its components, and their combination.
- B. Cavity wall drainage shall not be omitted because of the water resisting characteristics of POLY WALL Self-Adhering membrane.
- C. Walls to be treated shall be plane and true in both exposed and unexposed areas to receive application.
- D. Surface voids, sharp projections, and cracks will require corrective action by the responsible trade.
- E. Wall surfaces shall be free of dust and dirt that will interfere with the adhesion of POLY WALL SELF-ADHERING SHEET MEMBRANE.
- F. Surfaces shall be sound, dry, plane and true; free of oil, grease, dust, dirt, excess mortar and laitance in both exposed and unexposed areas to receive application.
- G. Concrete and concrete masonry (CMU) to be constructed without integral moisture repellent, and CMU shall be constructed with Type-M or Type-S mortar in accordance with ASTM C270.
- H. Parged surfaces are not approved surfaces to be treated with POLY WALL SELF-ADHERING SHEET MEMBRANE.

#### 3.02 PREPARATION

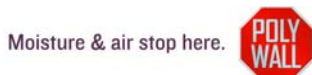
- A. **Old Surfaces** must be sound. Surfaces that have been in service (not new) will need to be cleaned with detergents, steam, or commercial degreasing products and acid contamination neutralized. Following cleaning, the surfaces should be rinsed with clean water and the cleanliness verified by a site inspector. Deteriorated concrete needs to be prepared by high-pressure washing, wet abrasive blasting, grinding, or dry abrasive blasting. All existing coatings, deteriorated concrete, and loose aggregate are to be removed until only sound gray concrete remains with a minimum surface profile height of 4-5 %, minimum surface pull-off strength of 175 PSI, and a minimum pH of 8.0.
- B. **New Surfaces** must be clean, dust free and dry. Concrete masonry units (CMU) shall be normal density and joints are to be struck flush, full, free of voids and gaps. Fill all holes and voids with non-

- shrinking grout. After 3 days of cure time, new CMU are ready to receive the application. No parging.
- C. Clean, dry exterior drywall, glass-faced exterior sheathings, plywood, oriented strand board (OSB) and properly primed metal can receive the membrane primer, POLY WALL Commercial Stretch, as a direct application.
- D. Penetrations, voids, and holes must be filled and sealed. Large voids in poured concrete, concrete masonry, and honeycombs surfaces require a non-shrinking hydraulic grout. POLY WALL Hole Filler or POLY WALL Fiber Flash is suggested for small voids and control joints.
- E. Control joints, transition assemblies and penetrations shall be filled and struck flush. 6 inch (or greater) POLY WALL Self-Adhering Flashing Membrane, or approved equal, are to be installed. When hydraulic cement is installed to fill voids, install and allow to dry thoroughly prior to air barrier application.

#### 3.03 APPLICATION

##### A. Application

1. Detail all remaining tie holes, bug holes, and other minor voids with POLY WALL Fiber Flash. Expansion, contraction, and control joints shall be filled flush with a joint filler, water stop or sealant: POLY WALL Hole Filler, POLY WALL Fiber Flash or approved equal. A 6-inch-or-greater strip shall be placed directly over the joint before final membrane application.
2. Install POLY WALL Stretch as the primer at a rate of 40 square feet per gallon (40 wet mils). Use of an airless sprayer with a 4000 PSI stall pressure and a 0.036-inch to 0.39-inch tip is recommended.
3. Apply extra POLY WALL Stretch material to penetrations and tie holes for an extra seal to the system.
4. Once primer has dried, detail penetrations such as pipes and conduits. Reinforce with a layer of POLY WALL Self-Adhering Flashing.
5. Apply POLY WALL SELF-ADHERING SHEET MEMBRANE vertically across the wall as a 25-, 40-, or 60-mil membrane with shingle-like overlaps. Side laps and end laps must lap at least 2.5 inches. Apply from top of wall to grade line and tie into the roof, waterproofing, window and door frames.
6. Hand roll overlap seams with a 2-inch wallpaper hanger's roller. Use heavy hand pressure while smoothing out the membrane surface as it is applied.
7. Upper termination edge needs to be pressed firmly with a narrow roller and mechanically attached using appropriate fasteners or a termination bar.
8. Visually inspect finished membrane for tears, punctures and blemishes before covering. Make repairs by removing all damaged materials so only well-bonded materials remain.



Apply new POLY WALL SELF-ADHERING FLASHING MEMBRANE over the affected area extending 6-inches onto previously applied membrane.

**B. Protection of Treated Surfaces**

Ultraviolet rays adversely affect POLY WALL SELF-ADHERING SHEET and Flashing Membranes. The installed membrane should not be left exposed for more than 30 days. Install drain tile system and cover with protection board before backfilling.

- A. All installation recommendations and instructions must be followed carefully.
- B. Precaution should be taken to prevent moisture from reaching the membrane-to-wall interface, freezing and breaking the bond.
- C. Alterations, additions, or penetrations of the System after installation must be sealed to maintain integrity of barrier system.
- D. Use only compatible products, substrates, and accessories with the system.

**3.04 LIMITATIONS**