

## STRETCH FLEX

Fluid-Applied Membrane Waterproofing

### MANUFACTURER

Polyguard Products, Inc.  
Ennis, TX 75119  
(214) 515-5000  
[www.polyguard.com](http://www.polyguard.com)

### PRODUCT DESCRIPTION

#### Basic Uses

Stretch Flex is designed for waterproofing concrete, precast concrete, CMU foundation walls, and other structural surfaces on the hydro positive-side.

### PRODUCT FEATURES

- Factory-controlled, single component product ensures consistency.
- Mold will not find a food source in the Stretch Flex membrane, which thereby contributes to the overall mold management within a wall system.
- When a repair or stop point is established, wet product can later be applied to clean and cured product creating a continuous system without seams.
- Minimal set-up and close-down procedures for spray applications adds productive time for spraying, quick adjustments in job sequencing, and where jobsite movement is required.
- Application in ambient temperatures between -20° F (-29° C) and 120° F (49° C) reduces project rescheduling due to weather related conditions.
- After application, it is not affected by immediate or subsequent exposure to rain.

### COMPOSITION & MATERIALS

Stretch Flex is a patented, single component, cold liquid-applied, elastomeric, thermoplastic rubber coating, waterproofing concrete sealer, and mastic that cures to form a durable waterproofing membrane capable of bridging substrate shrinkage cracks up to 1/16-inch.

Stretch Flex has a VOC content of 525 g/L.

### TECHNICAL DATA

See properties table below.

### INSTALLATION

#### Surface Preparation

Prepare substrates to be dry; clean of dirt and debris; and free of mortar smears, form release agents, and frost/ice. For maximum results, provide cured substrates with a minimum 175 PSI pull-off strength.

#### Poured Concrete Wall Preparation:

After removing concrete forms and before coating, allow 72 hours for drying (longer dry time will be needed for lower than 50° F (10° C) ambient temperatures and/or any rain event(s) occurs). Remove form ties from the inside and outside faces of the wall and fill each tie depression flush with non-shrinking Portland cement grout, installed per manufacturer's instructions. Fill

honeycombed concrete with non-shrinking Portland cement grout, installed per manufacturer's instructions, and allow said application to cure before coating.

#### Concrete Masonry Wall Preparation:

Leave CMU walls un-parged. Strike mortar joints full and flush to the face of the CMU. Grout or fill mortar voids with mortar, or non-shrinking Portland cement grout installed per manufacturer's instructions. Allow mortars and grouts 12 - 48 hours to dry before coating. Mortar or grout-filled cores, bond beams, and rain-soaked uncovered walls hold substantially more water and will require added time to dry before coating. When in doubt about the acceptable dryness of a wall, apply a 60-mil coating onto a 2' x 2' wall area and allow the coating to dry for a minimum of 24 hours. Proceed with coating the wall if the dry sample coating sticks to the wall surface. Allow more drying time if the dry sample coating doesn't stick to the wall. Repeat as necessary.

Submit precast and control joint designs to Polyguard for approval and prior to commencing work.

#### Priming

No primer is needed. For best results, apply Stretch Flex directly to sound concrete or CMU.

#### Membrane Application

Apply Stretch Flex and related accessory products over poured concrete and CMU substrate walls that have cured for a minimum of 72 hours. Provide the substrate surfaces as dry; clean of dirt and debris; and free of mortar smears, form release agents, and frost/ice.

Apply Stretch Flex and related accessory products in ambient temperatures between -20° F (-29° C) and 120° F (49° C); as one coat or more; by sprayer, roller, or brush to achieve a continuous film at the desired coverage rate of 27 square feet per gallon (60 wet mils). For application with an airless sprayer, use 3700-to-4000 PSI stall pressure and a 0.037-inch reversible spray tip.

Stretch Flex dries to an average thickness of 30 mils, but coverage rates will vary inversely related to the substrate texture and porosity. Apply Detail Sealant PW after the application of Stretch Flex. Allow the Stretch Flex a minimum of 24 hours to dry/cure before covering with Detail Sealant PW. At all times, allow a minimum 24 hours for Stretch Flex to dry/cure before continuing work on the surface.

Drying in direct sunlight and temperatures above 65° F (18° C) can cause blistering of the coating. Where said exposure can't be avoided, apply in multiple coats of 20 to 30 wet mils allowing each application to dry a minimum 24 hours before applying the next coating.

## **INSPECTION**

The coating is considered dry when the face of the coating will not deform under heavily applied thumb pressure. Coverage is considered complete when the dry coating has been inspected and found to be uniform and continuous.

## **BACKFILL**

Backfill after the system is complete in a non-destructive manner. Shape the final grade to drain surface water away from the structure.

## **PROTECTION AND DRAINAGE**

The system is considered complete when Polyflow® 15 or Polyflow® 15P have been adhered to the face of the coating with a low-rise spray adhesive; and associated drainage fittings are connected to daylight or to an active sump system.

Stretch Flex will be adversely affected by prolonged or constant ultraviolet radiation (UV) exposure longer than 30 days. For periods of (UV) exposure greater than 30 days, remove and recoat uncovered/exposed Stretch Flex after the 30-day term.

## **MEMBRANE REPAIR**

Repair damaged membrane and/or thin coverage with additional material. Thoroughly clean and dry damaged areas or thin coverage before re-coating with Stretch Flex. Allow re-coated areas a minimum of 24 hours to cure before installing protection/drainage materials.

## **LIMITATIONS:**

This product is not intended to be shipped or used in the States of California, Connecticut, Delaware, Maryland, or Rhode Island. The use of these products must be according to Federal, State and local governing regulations. To be used in exterior applications only. Cannot be applied to any polystyrene or foam-based products. Once the solvent has flashed out of the coating then polystyrene or foam-based products can be installed onto the cured membrane. Not to be used as a liner in potable water conditions.

## **WARNING:**

Flammable Liquid and vapor. DO NOT SMOKE while mixing or applying product. Ensure there are no open flames and/or spark generating sources on project while mixing or applying the product.

## **PRECAUTIONS:**

Install in a well-ventilated open area. Take safety precautions and wear appropriate safety gear for the application of solvent-based coatings (i.e., gloves, eye protection, respirator, ventilation, etc.) according to

Federal, State and local governing regulations. Harmful if inhaled. Can cause eye and skin irritation. Use process enclosures, local exhaust ventilation or other engineering controls to keep worker exposure to airborne contaminants below any recommended or statutory limits. The engineering controls also need to keep gas, vapor, or dust concentrations below any lower explosive limits. Use explosion-proof ventilation equipment and non-sparking tools. All trucks, barrels and spray equipment shall be properly grounded and bonded. A working fire extinguisher, type ABC, shall be available onsite in both the mixing and work areas. Prior to use and mixing, review the Safety Data Sheet for proper protective equipment and additional health, environmental and safety precautions.

## **STORAGE:**

This product is a solvent-based product and special care must be taken during storage, handling and use. Protect containers from water, sparks, flames, excessive heat, and poor ventilation. Store/keep product out of direct sunlight and in ambient temperatures between 10° F (23° C) and 100° F (38° C). For best application results, store in ambient temperatures above 50° F (11° C). Store in original container, lid securely closed, and with all markings & labeling in tact. Follow all Federal, State and local governing regulations.

## **SAFETY**

SDS documents for all Polyguard products can be obtained at our website [www.polyguard.com](http://www.polyguard.com). Call Polyguard Products, Inc. at (214)515-5000 with questions.

## **WARRANTY**

We, the manufacturer, warrant only that this product is free of defects, since many factors which affect the results obtained from this product are beyond our control; such as weather, workmanship, equipment utilized and prior condition of the substrate. We will replace at no charge product proved to be defective within twelve (12) months of purchase, provided it has been applied in accordance with our written directions for uses we recommended as suitable for this product. Proof of purchase must be provided.

## **TECHNICAL SERVICES**

Technical assistance, information and Polyguard's products are available through a nationwide network of distributors and architectural representatives, or contact Polyguard Products, Inc.

P.O. Box 755, Ennis, TX 75120-0755

Sales: (615) 217-6061•Tech Support: (214) 515-5000

Email: [archtech@polyguard.com](mailto:archtech@polyguard.com)

Website: [www.polyguard.com](http://www.polyguard.com)

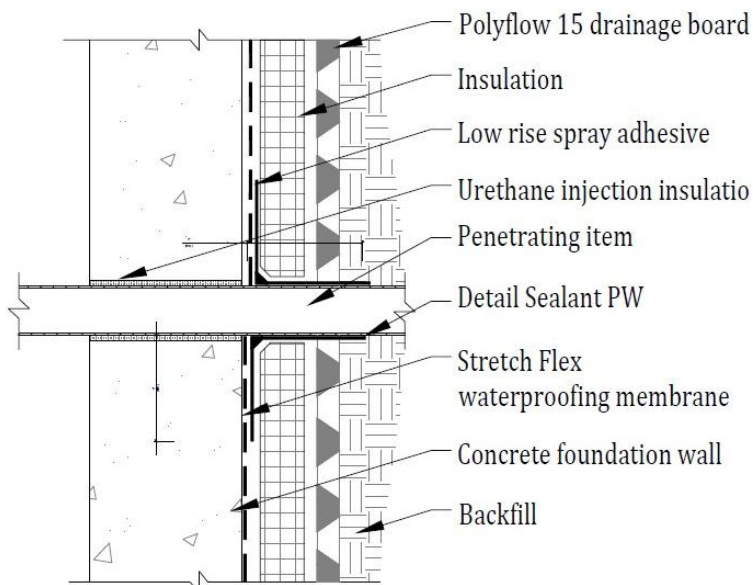
PROPERTY	TEST METHOD	TYPICAL VALUE
COLOR		Gray
SERVICE TEMPERATURE RANGE		-25° F to 185° F
PERMEANCE TO WATER VAPOR TRANSMISSION	ASTM E 96	0.058 Perms
MEMBRANE HYDROSTATIC PRESSURE RESISTANCE	ASTM D 5385	231 ft.
PEEL ADHESION	ASTM D 903	7.05
TENSILE STRENGTH	ASTM D 412 Modified Die C	378 PSI
ELONGATION	ASTM D 412 Modified Die C	515%
HARDNESS, SHORE A	ASTM D 2240	60
ADHESION	ASTM D 4541	135+ PSI Average
HYDROSTATIC PRESSURE OVER CRACKS, POURED CEMENT AND POURED MASONRY	ASTM C 1306	11 PSI
LOW-TEMPERATURE FLEXIBILITY AND CRACK BRIDGING	ASTM C 836 Section 6.7	Pass
REMAINS IN PLACE DURING APPLICATION, POURED CEMENT AND MASONRY	ASTM C 836 Section 6.9	Pass
ADHESION STRENGTH TO POURED CONCRETE	ASTM C 836 Section 6.10	7.551 lbf/in.
EXTENSIBILITY AFTER HEAT AGING	ASTM C 836 Section 6.12	No Cracking or tearing of membrane
RESISTANCE TO WATER	ASTM D 2939 Section 15	No Blistering or Re-emulsification
COLD, LIQUID-APPLIED, BELOW-GRADE, EXTERIOR DAMPPROOFING AND WATERPROOFING MATERIALS	ICC-ES AC 29	Pass
CATEGORY 1 40 C.F.R.§59.401 "WATERPROOFING SEALERS AND TREATMENTS"		525 g/L VOC

PACKAGING	PART NUMBER	UNIT SIZE
STRETCH FLEX	PG.STRETCH.FLEX.5	5-gallon pail
	PG.STRETCH.FLEX.55	55-gallon drum
<b>Stretch Flex Accessories:</b>		
DETAIL SEALANT PW™	DETAIL SEALANT PW – SAU 20 OZ	20 sausages/ctn
POLYFLOW® 15	POLYFLOW15	4' x 50' roll
POLYFLOW® 15P	POLYFLOW15P	4' x 50' roll
TOTALFLOW™	TOTAL FLOW	24" x 50' roll
TOTALFLOW™ END OUTLET (4")	OUTLET4-UNIV	N/A
TOTALFLOW™ TEE OUTLET (4")	TEE4-UNIV	N/A

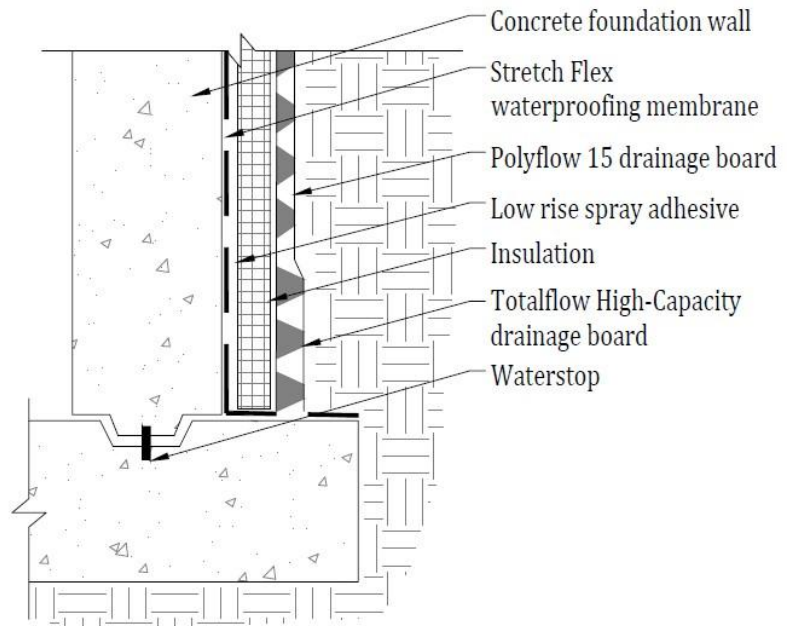
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## Common Polyguard® Stretch Flex Membrane Applications

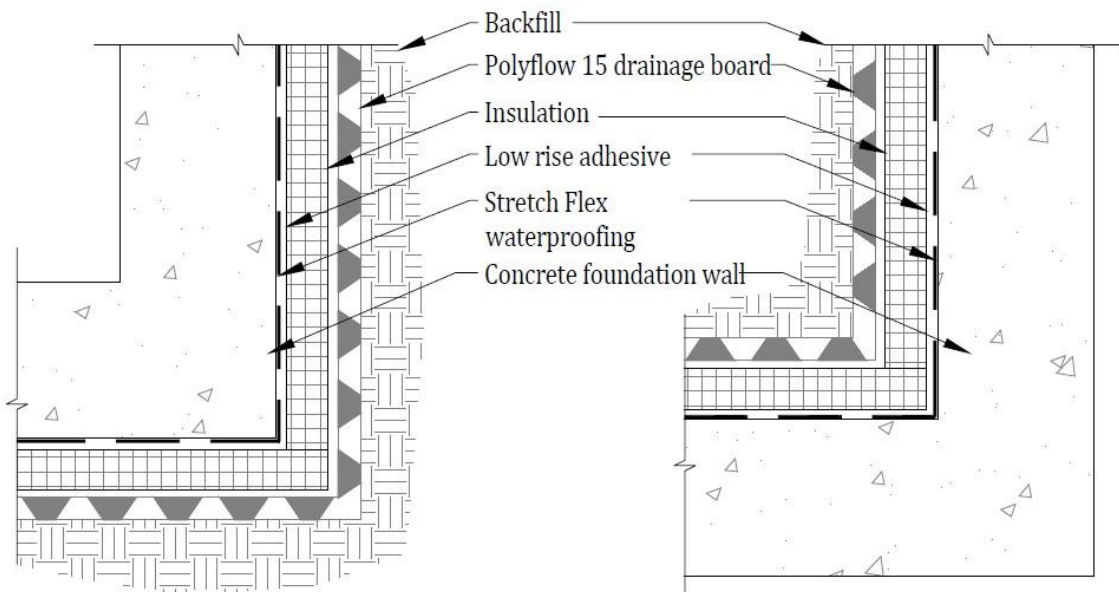
These diagrams are not intended to be application instructions, simply illustrations



Foundation Wall Penetration



Foundation Wall and Footer



Foundation Wall Corner Details

**Please Note:** Not intended to be full details. For full application detail on these configurations, see Polyguard details SFBG2, SFBG5, SFBG6, or contact Polyguard Products.