

## SECTION 07120

### FLUID APPLIED WATERPROOFING (FOR CAVITY WALL CONSTRUCTION)

#### PART 1 GENERAL

##### 1.1 SECTION INCLUDES

1. Fluid applied flexible acrylic waterproofing system over masonry in cavity wall construction.

##### 1.2 SUBMITTALS

1. Shop Drawings: Indicate special joint or termination conditions and conditions of interface with other materials.
2. Product Data: Provide data for material description, physical properties, recommended storage conditions, shelf life, precautions, flexible flashings, joint cover sheet, and joint and crack sealant, with temperature range for application of damp-proofing membrane.
3. Manufacturer's Installation Instructions: Indicate special procedures and perimeter conditions requiring special attention.

##### 1.3 QUALIFICATIONS

1. Applicator: Company specializing in performing the work of this section approved by manufacturer.

##### 1.4 DELIVERY, STORAGE, AND HANDLING

1. Deliver materials to site in manufacturer's unopened and undamaged containers bearing the following information:
  1. Name of manufacturer.
  2. Name of contents and products code.
  3. Net volume of contents.
  4. Lot or batch number.
  5. VOC content
  6. Storage temperature limits.
  7. Shelf life expiration date.
  8. Mixing instructions and proportions of contents.
  9. Safety information and instructions.

2. Store and protect materials from damage and weather in accordance with manufacturer's instructions.
3. Store materials at temperatures between 50 and 90 degrees F (10 and 32 degrees C). Keep out of direct sunlight.
4. Support stored material containers on pallets and cover with tarpaulin tied to bottom of pallets.

## 1.5 ENVIRONMENTAL REQUIREMENTS

1. Do not apply if ambient temperatures are expected to fall below 40 degrees F (5 degrees C) or if rain is imminent before the application has time to cure.

## 1.6 WARRANTY

1. Provide five-year manufacturer's product warranty.

## **PART 2      PRODUCTS**

### 2.1 MANUFACTURER

- |                                   |            |                    |
|-----------------------------------|------------|--------------------|
| 1. Hydro-Stop, a                  | Toll Free: | (800) 739-5566     |
| Quest Construction Products brand | Phone:     | (843) 745-9600     |
| 1465 Pipefitter Street            | Fax:       | (843) 745-9602     |
| North Charleston, SC 29405        | Web:       | www.hydro-stop.com |

### 2.2 MEMBRANE COMPOUND MATERIAL

1. Waterproofing Material: BarrierGuard acrylic modified cementous waterproofing coating for masonry containing retarders and water reducing agents.

### 2.3 ACCESSORIES

1. Mortar Patching Material: BarrierGuard patching mortar.
2. HydroFiber: Bulking material used in conjunction with Foundation Coat or BarrierGuard slurry (as specified by Hydro-Stop Technical Representative) to fill cracks, voids, or low depressions on various substrates.
3. StableRust Primer: water based surfactant-free primer used in direct metal applications to stabilize and protect metal surfaces.

## **PART 3      EXECUTION**

### **3.1 EXAMINATION**

1. Verify substrate surfaces are durable, free of frozen matter, dampness, loose particles, cracks, pits, projections, or foreign matter detrimental to adhesion or application of damp-proofing system.
2. Verify that substrate surfaces are smooth and not detrimental to full contact bond of damp-proofing materials.

### **3.2 PREPARATION**

1. Protect adjacent surfaces not designated to receive waterproofing.
2. Clean and prepare surfaces to receive waterproofing by removing all loose and flaking particles, grease and laitence.
3. Do not apply waterproofing to surfaces unacceptable to manufacturer.
4. Seal damaged mortar, cracks, and joints with mortar patching material in accordance with manufacturer's instructions.

### **3.3 APPLICATION**

1. Mix waterproofing slurry in accordance with manufacturer's instructions. Apply slurry at a coverage rate of 120-sq. ft/gal (2.9 sq. m/L) per coat. 2 coat required minimum.
2. Thoroughly work coating materials into joints, crevices, and open spaces.

### **3.4 CLEANING**

1. Immediately clean adjacent work not scheduled to receive damp proofing in accordance with manufacturer's instructions.

**END OF SECTION**

## SECTION 07120

### FLUID APPLIED WATERPROOFING (FOR BELOW GRADE AND SUBMERGED WALLS)

Using- The BarrierGuard System

#### PART 1 GENERAL

##### 1.1 DESCRIPTION OF APPLICATION AREAS

This specification is only intended for the application of the BarrierGuard System to a bare masonry wall. Untreated brick, block, split-faced block, and concrete are all acceptable surfaces. All other types of surfaces should be approved by a Hydro-Stop technical representative.

##### 1.2 SECTION INCLUDES

1. Fluid applied flexible cementitious waterproofing system over below grade or submerged walls.

##### 1.3 RELATED SECTIONS

1. Section 03300 - Cast-In-Place Concrete: Concrete substrate.
2. Section 04300 - Unit Masonry System: Masonry substrate.
3. Section 07900 - Joint Sealers.

##### 1.4 SUBMITTALS

1. Product Data: Provide data for material description, physical properties, recommended storage conditions, shelf life, precautions, flexible flashings, joint cover sheet, and joint and crack sealant, with temperature range for application of damp proofing membrane.
2. Manufacturer's Installation Instructions: Indicate special procedures and perimeter conditions requiring special attention.

##### 1.5 QUALIFICATIONS

1. Applicator: Company specializing in performing the work of this section approved by manufacturer.

##### 1.6 DELIVERY, STORAGE, AND HANDLING

1. Deliver materials to site in manufacturer's unopened and undamaged containers bearing the following information:
  1. Name of manufacturer.
  2. Name of contents and products code.
  3. Net volume of contents.
  4. Lot or batch number.
  5. VOC content.
  6. Storage temperature limits.
  7. Shelf life expiration date.
  8. Mixing instructions and proportions of contents.
  9. Safety information and instructions.
2. Store and protect materials from damage and weather in accordance with manufacturer's instructions.
3. Store materials at temperatures between 50 and 90 degrees F (10 and 32 degrees C). Keep out of direct sunlight.

#### 1.7 ENVIRONMENTAL REQUIREMENTS

1. Do not apply if ambient temperatures are expected to fall below 40 degrees F (5 degrees C) or if rain is expected before the application has time to cure.

#### 1.8 WARRANTY

1. Provide five-year manufacturer's warranty.

## **PART 2      PRODUCTS**

### 2.1 MANUFACTURER

- |                                   |            |  |
|-----------------------------------|------------|--|
| 1. Hydro-Stop, a                  | Toll Free: | (800) 739-5566   |
| Quest Construction Products brand | Phone:     | (843) 745-9600   |
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### 2.2 MEMBRANE COMPOUND MATERIAL

1. Waterproofing Material: BarrierGuard acrylic two-stage fabric reinforced acrylic modified cementitious waterproofing applied in successive stages to form one continuous, seamless, watertight membrane comprised of an acrylic modified slurry containing Portland cement with water reducing agents and retarders.

2. Reinforcing Fabric: This material shall be non-woven 100% polyester, stitch bonded, heat set fabric with the following characteristics:

Weight:	3 oz / per square yard (106.31 grams / square meter)		
Tensile Strength	Warp	74 lbs. (33.60 kg)	per ASTM D 5034
	Fill	45 lbs. (20.43 kg)	
Elongation @ Break	Warp	21.3%	per ASTM D 5034
	Fill	51.3%	
Ball Burst	111 lbs.	(50.39 kg)	per ASTM D 3787
Trapezoid	Warp	13.5 lbs. (6.13 kg)	per ASTM D 117
	Fill	24.2 lbs. (10.99 kg)	
Thickness	.018 inches	(.457 mm)	per ASTM D-1777

### 2.3 ACCESSORIES

1. Hydro-Fiber: Bulking material used in conjunction with Foundation Coat or BarrierGuard slurry (as specified by Hydro-Stop Technical Representative) to fill cracks, voids, or low depressions on various substrates.
2. StableRust Primer: water based surfactant-free primer used in direct metal applications to stabilize and protect metal surfaces.
3. The PremiumCoat System- Used around wall penetrations, expansion joints, and anywhere indicated by a Hydro-Stop Technical Representative.

## PART 3 EXECUTION

### 3.1 EXAMINATION

1. Verify substrate surfaces are durable, free of frozen matter, dampness, loose particles, cracks, pits, projections, or foreign matter detrimental to adhesion or application of waterproofing system.
2. Verify that substrate surfaces are smooth and not detrimental to full contact bond of waterproofing materials.
3. Verify items that penetrate surfaces to receive waterproofing are securely installed.
4. Verify that substrate areas are adequately supported and firmly fastened in place.

### 3.2 PREPARATION

1. Protect adjacent surfaces not designated to receive waterproofing.

2. As a minimum, clean and prepare surfaces to receive waterproofing by removing all loose and flaking particles, grease and laitance with the use of a stiff bristle push broom and or washing. Care should be taken not to inject water into the substrate during washing. In some cases additional drying time may be required after the cleaning process. Please consult your Hydro-Stop Technical Sales Representative for additional advice on cleaning various roofing substrates.
3. Make all necessary repairs to existing substrate. Contact Hydro-Stop Technical Representative for assistance.
4. Do not apply waterproofing to surfaces unacceptable to manufacturer.

### 3.3 APPLICATION

1. Mix waterproofing slurry material in accordance with manufacturer's instructions.
2. A light application of water on masonry surfaces may be necessary prior to the BarrierGuard installation on hot and sunny days. Please consult you Hydro-Stop Technical Representative.
3. Apply 1<sup>st</sup> coat of waterproofing slurry and embed fabric into still wet slurry coat followed by a saturation coat of slurry, and allow to dry. Total application rate for both foundation and saturation coats of waterproofing slurry is to be 25-sq. ft/gal (0.6-sq. m/L).
4. The PremiumCoat fabric should be installed vertically (like wall paper) ensuring that 4 inches (100 mm) of the system is installed onto the footer/slab. Overlap material a minimum of 4 inches (100 mm); extend material a minimum of 4 inches (100 mm) above grade.
5. Apply a final coat of waterproofing slurry at a coverage rate of 70 sq. ft / gal (1.7 sq. m/L) and allow to cure for at least 48 hours before backfilling.

### 3.4 CLEANING

1. Immediately clean adjacent work not scheduled to receive damp proofing in accordance with manufacturer's instructions.

**END OF SECTION**