



SECTION 07 16 13  
DRYLOK® Latex Base Powdered Masonry Waterproofer

PART 1 - GENERAL

1.1 RELATED DOCUMENTS

- A. Drawings and general provisions of the Contract, including General and Supplementary Conditions and Division 01 Specification Sections, apply to this Section.

1.2 SUMMARY

A. Section Includes:

1. Waterproofing below grade exterior surface of concrete, cement or concrete block brick, or stone basements, and foundation walls as scheduled.
2. Waterproofing above grade exterior surfaces of concrete, cement, brick, stone or concrete block walls as scheduled.
3. Waterproofing below grade interior surface of concrete, cement, brick, stone or concrete block basements and foundation walls as scheduled.
4. Waterproofing above grade interior surfaces of concrete, cement, brick, stone or concrete block walls as scheduled.
5. Waterproofing above or below grade potable or non-potable water tanks, cisterns, pools, lagoons, ponds, fountains or water features as scheduled.

B. Related Sections:

1. Section 03 30 00 – Cast-in-Place Concrete.
2. Section 03 41 00 – Precast Structural Concrete.
3. Section 03 47 13 – Tilt-Up Concrete.
4. Section 04 21 00 – Masonry Assemblies Unit Masonry.
5. Section 04 22 00 – Concrete Unit Masonry
6. Section 09 97 26 – Cementitious Coatings

1.3 REFERENCES

A. ASTM International (ASTM)

1. ASTM D 16 – Standard Terminology for Paint, Related Coatings, Materials and Applications.
2. ASTM D 1653 Method A (Dry Cup) – Standard Test Methods for Water Vapor Transmission of Organic Coating Films.
3. ASTM D 6904 – Standard Practice for Resistance to Wind-Driven Rain for Exterior Coatings Applied to Masonry.

4. ASTM D 7088 – Standard Practice for Resistance to Hydrostatic Pressure for Coatings Used in Below Grade Applications Applied to Masonry.

B. NSF International (NSF)

1. NSF/ANSI 61 – Drinking Water System Components – Health Effects

1.4 ACTION SUBMITTALS

- A. Submit under provisions of Section 01 30 00.

B. Product Data: For each type of product.

1. Include construction details, materials descriptions and tested physical properties of water proofing.
2. Include manufacturer's instructions for evaluating, preparing and treating substrate.

C. Shop Drawings:

1. Show locations and extent of waterproofing

D. Samples:

1. For each product specified, two samples, minimum 4 inches square, representing actual product color and texture.

1.5 QUALITY ASSURANCE

- A. Comply with Section 01 40 00.

B. Qualifications:

1. Manufacturer Qualifications: Company with minimum 15 years of experience in manufacturing of specified products and systems.
2. Applicator Qualifications: Company with minimum of 5 years' experience in application of waterproofing as specified in this section on projects of similar size and scope, and employs installers and supervisors who are trained by and acceptable to product manufacturer.
  - a. Successful completion of a minimum of 5 projects of similar size and complexity to specified Work.

C. Field Mock-up:

1. Install at Project site or pre-selected area of building an area for field mock-up, as directed by Architect.
2. Apply material in strict accordance with manufacturer's written application instructions.
3. Manufacturer's representative or designated representative will review technical aspects; surface preparation, application, and workmanship.
4. Field sample will be standard for judging workmanship on remainder of Project.
5. Maintain field mock-up during construction for workmanship comparison.
6. Do not alter, move, or destroy field mock-up until Work is completed and approved by Architect.
7. Obtain Architect's written approval of field mock-up before start of material application, including approval of aesthetics, color, texture, and appearance.

1.6 DELIVERY, STORAGE, AND HANDLING

- A. Comply with Section 01 60 00.

- B. Comply with manufacturer's ordering instructions and lead-time requirements to avoid construction delays.
- C. Deliver materials in manufacturer's original, unopened, undamaged containers with identification labels intact.
- D. Transport and store in unopened containers and keep in clean, dry condition protected from rain, dew, and humidity.

## 1.7 PROJECT CONDITIONS

- A. Environmental Requirements:
  - 1. Do not apply in rain or when rain is expected within 24 hours. Do not apply above 90 degrees F (32 degrees C) or below 50 degrees F (10 degrees C) or when temperatures are expected to fall below 40 degrees F (4 degrees C) within 24 hours.

## PART 2 - PRODUCTS

### 2.1 MANUFACTURERS

- A. Subject to compliance with requirements, provide products from the following manufacturer:
  - 1. United Gilsonite Laboratories (UGL), which is located at 1396 Jefferson Avenue, P.O. Box 70 Scranton, PA 18501; Customer Service: 1-800-845-5227 or 1-570-344-1202; Email: [ugllabs@ugl.com](mailto:ugllabs@ugl.com); Website: [www.ugl.com](http://www.ugl.com)
- B. Substitutions: Not Permitted.
- C. Specifications and Drawings are based on manufacturer's proprietary literature from United Gilsonite Laboratories (UGL).
- D. Single Source Limitation for Complete System: Obtain materials from a single manufacturer to create a complete system.

### 2.2 MATERIALS

- A. Latex based coating for concrete and masonry that resists both positive and negative hydrostatic pressure.
  - 1. Acceptable Product:
    - a. DRYLOK<sup>®</sup> Latex Base Powdered Masonry Waterproofer

### 2.3 MIXING

- A. Mix material per manufacturer instructions. Allow material to settle and hydrate 15 minutes after initial mixing. Remix and apply.
- B. Mix no more material than can be used in 3 to 4 hours.
- C. Color:
  - 1. White

## PART 3 - EXECUTION

### 3.1 EXAMINATION

- A. Comply with Section 01 70 00.

### 3.2 SURFACE PREPARATION

- A. Ensure that substrates are sound and free of dust, dirt, paints, form oils, wax curing compounds, clear sealers, paint or other contaminants that could impair bond of the coating.
- B. Ensure substrate has properly cured. Concrete should obtain 80 percent of design strength. If efflorescence is present, remove it with DRYLOK® ETCH or muriatic acid before proceeding.

### 3.3 APPLICATION - GENERAL

- A. Thoroughly dampen masonry surface with water prior to application. Allow surface water to absorb prior to application.
- B. Apply coating directly on to bare masonry with a DRYLOK® brush, stiff nylon bristle brush, broom or by spray equipment. Spray or back-brush first coat to fill pores of masonry and achieve uniformity.
- C. Continue to dampen masonry surface with water ahead of application.
- D. Two coats shall be applied. Allow first coat to cure 12 to 24 hours, then apply second coat by brush, spray or broom. Dampen first coat with water prior to application of second coat. Apply second coat cross-directionally from first coat to achieve uniformity.
- E. Examine finished surface after two coats and inspect for any leaking, open pores or pinholes. If observed, spot-treat rejected areas, repaint entire surface with another coat of DRYLOK® Latex Base Powdered Masonry Waterproofer and reinspect.
- F. Allow coating to cure 7 to 10 days before immersion in water. Rinse entire tank, cistern or surface of pond or lagoon. Repeat rinsing 4 times to control alkalinity content before putting into service.

### 3.4 CLEANING

- A. Clean waterproofing material from tools and equipment with water. Remove cured materials by washing or scraping.

### 3.5 PROTECTION

- A. Protect work from damage of other trades during construction. Correct deficiencies or damage by cleaning or recoating, as approved by Architect.

END OF SECTION