



SECTION 09 96 53
DRYLOK® E1 Latex 1-Part Epoxy Concrete Floor Paint

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. Sealing and coating interior concrete floors.
 - 2. Sealing and coating exterior concrete floors.
 - 3. Sealing and coating exterior concrete walkways, balconies and patios.

- B. Related Sections:
 - 1. Section 03 30 00 – Cast-in-Place Concrete.
 - 2. Section 09 91 00 – Painting.
 - 3. Section 09 97 23 – Concrete and Masonry Coatings.

1.3 REFERENCES

- A. ASTM International (ASTM)
 - 1. ASTM D 16 – Standard Terminology for Paint, Related Coatings, Materials and Applications.

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.
 - 2. Include manufacturer's instructions for evaluating, preparing and treating substrate.
- C. Shop Drawings:
 - 1. Show locations and extent of application.
- D. Samples:
 - 1. For each product specified, two cured samples, 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 products 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 outdoors in rain or when rain is expected within 48 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; Website: 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. One-Part epoxy sealer and coating for concrete and masonry surfaces.

1. Acceptable Product:

a. DRYLOK® E1 Latex 1-Part Epoxy Concrete Floor Paint.

2.3 MIXING

A. Stir thoroughly before application.

B. Do not thin.

C. Color:

1. Platinum

2. Gray

D. Custom Color. Refer to Drawings.

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, grease, oils, concrete curing compounds, or other contaminants that could impair bond of the coating.

B. If efflorescence is present, treat with DRYLOK® ETCH or muriatic acid and remove it by pressure washing with clean water and allow to dry 24 hours. Prime surface with DRYLOK® PROTECTOR CLEAR LOW SHEEN PENETRATING SEALER. Refer to manufacturer's written instructions on container or available on manufacturer's website.

C. If mildew is present, treat with suitable mildew remover and remove it according to manufacturer recommendations.

D. Ensure substrate has properly cured for a minimum of 30 days.

- E. Extremely smooth concrete floors must be acid etched or mechanically abraded to achieve proper profile. Treat floor with DRYLOK[®] ETCH or muriatic acid or mechanically abrade to a surface texture equivalent to IRCI CSP Rating of 3-4. Rinse with clean water and allow to dry 24 hours.
- F. If grease, wax or oil is present, remove it with DRYLOK[®] Concrete and Masonry Etch & Cleaner. Rinse with clean water and allow to dry 24 hours.
- G. Remove peeling paint by scraping or grinding. Pressure wash with clean water and allow to dry 24 hours. Glossy painted surfaces shall be dulled or sanded to improve adhesion. Do not apply to floors previously painted with two-component paints or coatings.

3.3 APPLICATION - GENERAL

- A. Stir DRYLOK[®] E1 LATEX 1-PART EPOXY CONCRETE FLOOR Paint thoroughly before application.
- B. Refer to manufacturer's written instructions on container or available on manufacturer's website
- C. Apply coating with a 3/8 inch (9.5 mm) nap roller or nylon polyester brush.
- D. Two coats shall be applied. Allow first coat to cure 4 hours, then apply second coat by roller or brush. Apply second coat cross-directionally from first coat to achieve uniformity.
- F. Allow coating to cure 4 hours before subjecting to light foot traffic. Allow coating to cure 24 hours to cure before subjecting to heavy foot traffic. Allow coating to cure 5 – 7 days before subjecting to vehicular traffic.

3.4 CLEANING

- A. Clean material from tools and equipment as instructed in the written instructions on the container or available on the manufacturer's website.

3.5 PROTECTION

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

END OF SECTION