

Architectural Specification  
Floropoxy Fiber Reinforced Wall Coating System

Part 1: General

1.01 System Description

- A. This system shall be applied to the prepared substrate(s) as defined by the plans strictly in accordance with the manufacturer's recommendations.
- B. Florock Floropoxy Fiber Reinforced Wall Coating System is a high performance, non-sag, colorfast wall system that provides a high impact strength with abrasion and chemical resistant surface. This VOC-compliant, low odor system results in a jointless "tile-like" finish with an optional urethane topcoat.

1.02 Submittals

- A. Product Data
  - 1. Current edition of manufacturer's product literature including physical data, chemical resistance, surface preparation, and application instructions.
- B. Samples
  - 1. A 6 inch (150 mm) square sample of the proposed system shall be submitted to represent the finished system.
- C. Warranty
  - 1. Manufacturer's standard warranty
  - 2. Applicator's standard warranty

1.03 Quality Assurance

- A. Qualifications
  - 1. The manufacturer shall have a minimum of 10 years experience in the production, sales, and technical support of polymer-based floor coatings.
  - 2. The applicator shall have a minimum of 10 years experience in the application of polymer floor coatings to concrete floors documented in writing by Florock/Crawford Laboratories, Inc.
  - 3. Proposed suppliers of other products shall provide certification that they have 10 years experience in the production of polymer floor coatings and be required to meet all provisions of this specification as well as provide evidence for compatibility between components to the satisfaction of the Architect & Owner.
- D. Pre-Bid Conference
  - 1. A pre-bid conference should be held between prospective applicators and the Architect to review surface preparation, application, clean-up procedures, and design issues.

E. Packing and Shipping

1. All materials are to be delivered to the job site in the manufacturer's original packaging. The product code and other identification marks should be clearly marked and visible.

F. Storage and Protection

1. All material is to be stored in a cool, dry place out of the direct sunlight and away from any ignition sources. The applicator should refer to the manufacturer's literature and material safety data sheets for more information.
2. Material Safety Data Sheets are to be kept on site and made readily available for all personnel.
3. Keep containers sealed and ready for use.

1.04 Project Conditions

A. Environmental Requirements

1. Optimum air and substrate temperature for product application is between 55 F (13 C) and 95 F (35 C). Consult the manufacturer for product application suggestions for temperatures out of the specified range.
2. Verify the work environment is properly equipped with vapor barriers and perimeter drains.
3. Maintain proper lighting throughout the work environment; the lighting should be comparable to the final lighting level of the space.
4. Store and dispose of any waste in accordance with regulations of local authorities.

B. Safety Requirements

1. "No Smoking" signs shall be posted throughout the work area prior to application.
2. The owner shall be responsible for removing any foodstuffs from the work area.
3. Open flames, spark producing tools/items, and ignition sources shall be removed from the work area prior to application.
4. Only work-related personnel shall be allowed within the work area.

1.05 Warranty

A. Coordination

1. The manufacturer offers a full, one-year warranty against defects in materials. Warranties concerning the installation of the material are solely the responsibility of the applicator.

Part 2: Products

2.01 Manufacturer

- A. Florock Polymer Flooring  
1120 W. Exchange Avenue  
Chicago, IL 60609  
Phone: (773) 376-7132  
Fax: (773) 376-0945  
www.florock.net

2.02 Materials

- A. Wall Coating
  1. Appropriate Florock 47, 48 or 49 series epoxy as a primer.
  2. Appropriate Florock 48 or 49 series epoxy as base coat
  3. Fiberglass Mat
  4. Appropriate Florock 48 series epoxy as grout/top coat
  5. Optional Florock 48 series epoxy as topcoat
  6. Optional Urethane topcoats

2.03. Properties

- A. The coating system should meet the following physical properties:

Cured System Properties

Tensile Strength ASTM D2370	1768 PSI
Elongation ASTM D2370	5%
Shore Hardness A/D ASTM D2240	100 / 75
Sag ASTM D4400	7
Sward Hardness ASTM D2240	70

Part 3: Execution

3.01 Inspection

- A. General
  1. Examine the areas and conditions where wall coating is to be installed and notify the Architect of conditions detrimental to the proper and timely completion of the work. Do not proceed with the work until unsatisfactory conditions have been corrected by the contractor in a manner acceptable to the Architect.

3.02 Preparation

- A. Patching and Joint Preparation
  1. Before application, the wall shall be examined for spalls, pitts, holes, cracks, etc... These must be treated after preparation and before application. Patch with 100% solids epoxy Florock Floropoxy 47 or 49 series or FloroGel.

B. Surfaces

1. Concrete- Shot-blast or diamond grind as required to obtain clean, open porous concrete. Remove sufficient material to provide a sound surface, free of laitance, glaze, efflorescence, and any bond-inhibiting curing compounds or form release agents. Remove grease, oil, and other penetrating contaminants. Repair damaged and deteriorated concrete to acceptable condition; leave surface free of dust, dirt, laitance, and efflorescence.
2. Masonry Block- Clean, dry and coated with appropriate primer/filler.
3. Drywall- Clean, dry and free of any gypsum dust, oils, soap residues, etc..

C. Materials

1. Mix components when required, and prepare materials according to flooring system manufacturer's instructions.

3.03 Application

A. General

1. The system shall be installed in the order described below:
  - a. Substrate Preparation
  - b. Primer
  - c. Basecoat
  - d. Fiberglass Mat
  - e. Grout/Topcoat Application
  - f. Optional Topcoats
2. Concrete surfaces on grade shall have been constructed with a vapor barrier to protect against the effects of vapor transmission and possible delamination of the system.
3. The surface should be dry prior to application of any of the aforementioned steps. Furthermore, the substrate shall always be kept clean, dry, and free of any contaminants.
4. The handling and mixture of any material associated with the installation of the system shall be in accordance with the manufacturer's recommendations and approved by the Architect.
5. The system shall follow the contours of the substrate unless otherwise specified by the Architect.
6. A neat finish with well defined boundaries and straight edges shall be provided by the applicator.

B.: Wall System

1. Primer shall consist of Florock 100% solids epoxy.
2. Basecoat shall consist of Floropoxy 48 or 49 series.

3. Fiberglass Mat

4. Grout/Top Coat shall consist of Floropoxy 48 or 49 series

5. Optional Top Coat shall consist of Floropoxy 48 or 49 series

6. Optional Urethane Topcoat of Florock's Florothane

3.04 Field Quality Control

A. Tests & Inspection

1. The following tests shall be performed by the applicator and recorded during application to submit to the Architect:

a. Temperature During Installation

1. Air
2. Substrate
3. Dew Point

3.05 Cleaning

A. Disposal

1. Properly remove and dispose of any excess materials.