

PD TEXTURE COAT PROTECTIVE CONCRETE COATING

PART 1 GENERAL

1.1 SECTION INCLUDES

- A. Concrete Coating and accessories.

1.2 RELATED SECTIONS

- A. Section 03 30 00 - Concrete.
- B. Section 07 90 00 - Sealant.

1.3 REFERENCES

- A. ASTM E 96 - Water Vapor Transmission.
- B. ASTM C 297 – Bond Strength.
- C. ASTM D 1242 – Abrasion Resistance.
- D. MIL G 23 – Accelerated Weathering.
- E. MIL E 84 – Surface Burning.

1.4 SYSTEM DESCRIPTION

- A. PD Texture Coat is a proprietary blend of high performance acrylic formulations and sealers, providing a wide variety of colors and textures. Its intention is to be used as a decorative traffic coating only.

1.5 SUBMITTALS

- A. Submit under provisions of Section 01 30 00 - Administrative Requirements.
- B. Product Data: Manufacturer's data sheets on each product to be used, including:
 - 1. Preparation instructions and recommendations.
 - 2. Storage and handling requirements and recommendations.
 - 3. Installation methods.
- C. Installer's approval by Manufacturer: Submit document stating manufacturer's acceptance of Installer as Certified Applicator for the specified materials.
- D. Warranty: Submit a sample warranty identifying the terms and conditions stated in Warranty article.

1.6 QUALITY ASSURANCE

- A. Manufacturer Qualifications: Minimum 5-year experience manufacturing similar products.
- B. Manufacturer Certifications: Manufacturer recognized by the following Model Building Code organizations:
 - 1. ICC-ES
 - 2. Florida Product Approval

3. City of Los Angeles Research Report
- C. Applicator Qualifications: Experienced in applying the same materials and shall be specifically certified in writing by the system manufacturer.
- D. Sample: Provide a sample for evaluation of surface preparation techniques and application workmanship.
 1. Finish areas designated by Architect.
 2. Do not proceed with remaining work until workmanship is approved by Architect.
 3. Rework mock-up area as required to produce acceptable work.

1.7 PRE-INSTALLATION MEETINGS

- A. Pre-Installation Conference: Prior to beginning work, convene a conference to review conditions, installation procedures, schedules and coordination with other work.
- B. Convene minimum two weeks prior to starting work of this section.

1.8 DELIVERY, STORAGE, AND HANDLING

- A. Deliver materials to project site in original, factory-sealed, unopened containers bearing manufacturer's name and label intact and legible with following information.
 1. Name of material.
 2. Manufacturer's stock number and date of manufacture.
 3. Material safety data sheet.
- B. Recommended storage and application temperature are between 40 degrees F (4 degrees C) and 110 degrees F (43 degrees C). Store materials in a dry location, out of direct sunlight and protected from weather and other damage in accordance with safety data sheet.
- C. Handling: Handle materials to avoid damage.

1.9 PROJECT CONDITIONS

- A. Existing Conditions:
 1. PD Texture Coat shall be applied over the following horizontal concrete substrates when prepared in accordance with this specification and PD Texture Coat Application Instructions, TC-120.
 - a. Sound concrete substrate where waterproofing is not required.
 - b. Maxxon Dek C-Ment, please contact Pli-Dek for details.
 2. The applicator/contractor shall verify that the proposed substrate has been properly prepared in accordance with the PD Texture Coat Application Instructions, TC-120, before application of the Pli-Dek materials.
 3. The Pli-Dek technicians/applicators, and/or Pli-Dek Systems, Inc. will not be responsible for any deficiencies in the existing concrete substrate.
 4. The applicator shall have access to electrical power, clean potable water and clean work area at the location where the waterproofing materials are to be applied.
 5. Other working trades need to be made aware to keep off those areas being covered by waterproofing materials during the application and curing process.
 6. All required inspections must be made prior to the installations of the Pli-Dek materials.
- B. Environmental Conditions:
 1. The ambient air temperature should be no less than 10°C (50°F) and not exceed 43°C (110°F).

2. For application instructions in areas classified as Inclement Weather areas, refer to Technical Bulletin, TB-110.

C. Protection:

1. Protect adjacent areas and materials shall be protected from damage, drops and spills. Protect plants, vegetation and animals which might be affected by waterproofing operations.
 2. The Pli-Dek materials shall be protected by permanent or temporary means from weather and other damage, prior to, during, and immediately after application. Care must be taken to prevent condensation and/or heat buildup when using a tarp or plastic as protection.
- D. Maintain work area in a neat and orderly condition, removing empty containers, rags, and rubbish daily from the site.

1.10 SEQUENCING

- A. Application shall be coordinated with other construction trades.
- B. Sufficient labor and equipment shall be employed to ensure a continuous operation.

1.11 WARRANTY

- A. Warranty: Provide manufacturer's standard limited material warranty.

PART 2 PRODUCTS

2.1 MANUFACTURERS

- A. Acceptable Manufacturer: Pli-Dek Systems, Inc., which is located at: 41610 Date Street, Suite 104, Murrieta, CA 92562; Toll Free Tel: 800-364-0287 Tel: 951-834-9550; Fax: 951-834-9551; Email: [request info \(info@plidek.com\)](mailto:request_info(info@plidek.com)); Web: www.plidek.com
- B. Substitutions: Not permitted.
- C. Requests for substitutions will be considered in accordance with provisions of Section 01 60 00 - Product Requirements.

2.2 EPOXY & URETHANE FLOOR COATING MEMBRANE

- A. Protective Concrete Coating shall be PD Texture Coat comprised of the following components:
 1. GU80-1 Top Coat Mix: Proprietary blend of various sands and cement, when combined with GU80-1 Liquid Admixture, is a polymer modified cement coating.
 2. GU80-1 Liquid Admixture: Water based acrylic emulsion.
 3. GS88-1 Deep Base: Blend of high solid acrylic polymers that provides a pigmented elastomeric water repellent coating.
 4. GS13: Durable and versatile water based sealer and concrete coating.
 5. PD Clear: Solvent based, clear, single component VOC compliant sealer and glaze.

2.3 ACCESSORY PRODUCTS

- A. Surface Primer: PD Vapor Prime (optional).
- B. Sealants: ASTM C-920 Polyurethane Joint Sealant.

PART 3 EXECUTION

3.1 EXAMINATION

- A. Ensure that the substrate is of type listed in Section 1.9A.
- B. Before any decorative traffic coating work is started, the Pli-Dek certified applicator shall thoroughly examine all surfaces for any deficiencies. Where deficiencies exist, the Architect, Owner, or Contractor shall be notified in writing and corrections made.
- C. **Condition of Concrete Surfaces:**
 - 1. Concrete shall be structurally sound and have cured a minimum of 28 days prior to application of the Pli-Dek material. All placements of expansion/control joints shall be determined by the structural engineer or concrete contractor to allow for movement. All spalled, severely cracked, and decomposing concrete shall be removed and replaced.
 - 2. Concrete areas shall be sloped for positive drainage, as per the code, minimum of 3.2 mm/.3m (1/8" to 1/4" per linear foot) where drainage is recommended. FHA and ADA guidelines need to be honored in all designated areas.
 - 3. All concrete substrates not poured over an effective vapor barrier are subject to possible moisture vapor transmissions and related high levels of alkalinity that may lead to adverse effects of the coating. It is the general contractors/owner's responsibility to ensure proper vapor barriers are in place.
 - a. Refer to Technical Bulletin TB-111 Concrete Moisture Vapor Drive Testing for Recommended Field Verification Testing by the applicator and owner.
 - 4. The concrete surface must incorporate properly placed and designed (by others) control/expansions as to control movement and or shrinkage/drying cracks.
 - 5. All control joints should remain in the application.

3.2 SURFACE PREPARATION

- A. Refer to PD Texture Coat Application Instructions, TC-120 for complete instructions.
- B. The concrete surface shall be thoroughly clean, dry, and free from any surface contaminates, or cleaning residue that may harmfully affect adhesion of the membrane.
- C. All undermined, cracked, damaged, etc., concrete must be repaired or replaced before applying the decorative traffic coating over the concrete surface.
- D. Concrete shall have a moisture content of less than 5% (Refer to Moisture & Vapor Transmission Testing refer Technical Bulletin, TB-111).

3.3 APPLICATION

- A. **Primer Coat:**
 - 1. All concrete surfaces shall be ground free of any contaminants, and primed with either GU80-1 Liquid Admixture or PD Vapor Primer.
- B. **Maxxon Underlayment:**
 - 1. Contact Pli-Dek for details.
- C. **Screed Coat (Not always required – refer to TC-120):**
 - 1. Apply a Screed coat of GU80-1 Top Coat with a stainless-steel trowel over the prepared and primed substrate. Screed material very thin, leaving just enough material to completely cover the underlying substrate and allow to dry a minimum of 2-6 hours (additional time may be necessary under adverse drying conditions).
- D. **Knockdown Coat:**
 - 1. Using a hopper gun, spray the desired texture of the mixed GU80-1 Top Coat. Knockdown the texture with a trowel before it dries. After Knockdown Coat, has

completely dried, remove any sharp edges by scraping the surfaced with a scraper or a trowel. Apply GS88-1 Deep Base Sealer over the dry PD texture Coat using a roller brush. Protect the sealed surface from weather and traffic for a minimum of 12 hours.

E. Custom Finish:

1. See PD Texture Coat Application Instructions for Finish Options (TC-120).

3.4 CLEAN UP

- A. The applicator in accordance with contract provisions shall remove all excess PD Texture Coat materials from the job site.
- B. All surrounding areas, where the waterproofing materials have been applied, shall be left free of debris and foreign substances resulting from the contractor's work.

3.5 SLIP AND FALL PRECAUTION:

- A. OSHA, American Disabilities Act (ADA), and The Federal Housing Act (FHA) have now set enforceable standards for slip-resistance on pedestrian surfaces. Pli-Dek Systems, Inc. recommends the use of angular slip-resistant aggregate in all coatings or flooring systems that may be exposed to wet, oily/greasy, or otherwise potentially slippery conditions. It is the end user's responsibility to provide a flooring system that meets current safety standards. Pli-Dek Systems, Inc. or its sales agents will not be responsible for injury incurred in a slip and fall accident. Please consult local building codes for the current coefficient of friction requirement.

END OF SECTION

Disclaimer

Information contained in this specification conforms to standard detail and product recommendations for the installation of the Pli-Dek products as of the date of publication of this document and is presented in good faith. Pli-Dek Systems, Inc. assumes no liability, expressed or implied, as to the architecture, engineering or workmanship of any project. Pli-Dek Systems, Inc. or the Pli-Dek Applicator does not warrant cracks in the Pli-Dek Finish material resulting from structural movement and/or recurring of existing cracks in the substrate. To ensure that you are using the latest, most complete information, contact Pli-Dek Systems, Inc., at:

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