

I. Substrate Inspection/Preparation:

A. General

1. The PD Texture Coat System may be applied over concrete on grade or concrete decks that do not require waterproofing. (For waterproof deck coating for concrete, see Con-Dek Application Instructions, CD-120 or CD-120-IW).
2. When installing the PD Texture Coat System over other systems, to establish a cosmetic upgrade, Pli-Dek does not inherit the waterproofing warranty of the existing deck system, unless specifically outlined in the scope of work that is supported by a Pli-Dek approval.
3. All inspections, as required by local building authorities, shall be the responsibility of the contractor, owner, and/or their agent.
4. 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 blistering and failure of the coating system. Refer to Pli-Dek Technical Bulletin TB-111 for additional information.

B. Traditional Concrete Substrates

1. The builder must give assurance that concrete has been installed according to the International Building Code (IBC) standards and requirements. The Pli-Dek technicians, and/or Pli-Dek LLC will not be responsible for any deficiencies in the existing concrete substrate.
2. Drying and curing of concrete shall be 28 days before any Pli-Dek Coating is applied to the surface. Moisture content of the existing concrete shall be no greater than 5%. If any other system, other than water cure is used, the General Contractor, and/or Owner, must advise the Pli-Dek installer.
3. The substrate must be free of all oils, paints, epoxy, resins, wax, or solvent curing compounds, etc. It may affect adhesion of the Pli-Dek material to the substrate. If such materials are present on the substrate, contact Pli-Dek Systems, Inc. for complete details.
4. Maxxon Underlayment System with 2,500 psi is also an approved substrate for PD Texture Coat. Please contact Pli-Dek LLC. for details.

C. Cleaning/Etching

1. Take any necessary action to clean surface before proceeding with the Pli-Dek Coating. If other subcontractors have done damage, be sure to procure a signed additional work order. **Contact Pli-Dek LLC for additional information.

D. Preparation

1. Concrete substrate must be clean, dry, and free of all contaminants. If significant contaminants are present, contact Pli-Dek for additional information.
2. Prepare surface by grinding or shot blasting. If grease or significant contaminants are present, contact Pli-Dek for additional instructions.
3. Ensure preparation procedures comply with local building and environmental regulations.

4. The concrete shall be porous, and have a minimum CSP-2/3 Rating, suitable to receive the coating.
 5. Moisture & Vapor Transmission Testing refer to Concrete Moisture & Vapor Transmission Testing Technical Bulletin (TB-111).
 6. Apply a primer coat of one of the following:
 - a) A mixture of 1-gallon of GU80-1 Liquid Admixture to 4-gallons of water. Apply at a rate of 1-gallon per 240 sqft.
 - b) Vapor Prime Primer and Vapor Prime, contact Pli-Dek for additional information.
- E. Crack Treatment {NOT Warrantied}
1. Rout-out cracks with a crack chaser that is normally mounted on a small hand-held grinder. It may be necessary to open crack further with a dry-cut diamond blade mounted on a grinder, or a skill saw.
 2. Additional control joints should be cut where necessary as recommended by structural engineer. Cutting additional expansion joints to help control concrete movement shall be determined by others. Future cracking due to the lack of expansion joints shall be the responsibility of others.
 3. Fill cracks with ASTM C 920 Polyurethane Sealant, filling to the surface of the concrete. Allow 4 - 6 hours for curing time. The urethane must be fully cured before applying the subsequent coating. Apply 6" strips of Fiberglass and PD Resin over the cured urethane.
 4. *The Pli-Dek installer and/or Pli-Dek LLC will not be responsible for structural movement that may result in new cracks, and/or recurring of existing cracks in substrate. Consequently, no warranty on cracking (expressed or implied) can be provided.*

II. Mixing Instructions:

- A. GU80-1 Top Coat
 1. Pour 4.75L (1.25 gallons) of GU80-1 Liquid Admixture into a clean 19L(5-gallon) plastic container.
 2. Add one 21kg (46 lbs.) bag of GU80-1 Top Coat powder. Mix thoroughly for 3 to 4 minutes, with a Wind-lock B-M1 mixing blade, or equivalent, powered by a 13mm (1/2 inch) variable speed drill, capable of producing 1000 RPMs. TIP: In areas subject to extremely dry, and/or hot climates, it may be necessary to add water (up to .47L {1 pint} per mix). In order to avoid flash drying it may be necessary to chill the GU80-1 Liquid Admixture before mixing. Proper PPE should always be worn when working with Pli-Dek Products.
 3. Pli-Dek products must be stored in the shade to prevent overheating and reduction of pot life.
 4. If colored cement is required, a Pli-Dek recommended GU80 Color Vial may be added to the mix to achieve the desired color. NOTE: to ensure that all the colorant is dispersed out of the container.
 5. *All mixes must be consistent (use the same mix ratios) to maintain color consistency.*
- B. GU80-1 Custom Top Coat
 1. Pour 4.75L (1.25 gallons) of GU80-1 Liquid Admixture into a clean 19L (5-gallon) plastic container.

2. Add one 21kg (46 lbs.) bag of GU80-1 Custom Top Coat powder. Mix thoroughly for 3 to 4 minutes, with a Wind-lock B-M1 mixing blade, or equivalent, powered by a 13mm (1/2" variable speed drill, capable of producing 1000 RPMs. TIP: In areas subject to extremely dry, and/or hot climates, it may be necessary to add water (up to .47L {1 pint} per mix). In order to avoid flash drying it may be necessary to chill the GU80-1 Liquid Admixture before mixing. Proper PPE should always be worn when working with Pli-Dek Products.
3. Pli-Dek products must be stored in the shade to prevent overheating and reduction of pot life.
4. If colored cement is required, a Pli-Dek recommended GU80 Color Vial may be added to the mix to achieve the desired color. NOTE: to ensure that all of the colorant is dispersed out of the container.
5. *All mixes must be consistent (use the same mix ratios) to maintain color consistency.*

III. Screed Application:

- A. Air temperature for application of the Screed Coat mixture be between 10°C (50°F) and 43°C (110°F) and must remain so for a minimum of 8 hours.
- B. The concrete surface must be prepared as described in Section I. Apply primer coat (primer consists of 80% water and 20% GU80-1 Liquid Admixture) with a roller or sprayer at the rate of 150-200 square feet per gallon over the concrete, just prior to application of GU80-1 Top Coat Mixture. NOTE: A screed coat is only necessary if the concrete is in a condition where sloping or leveling is needed, or concrete is not smooth, etc. When extensive crack treatment is required, a screed coat becomes necessary.
- C. Mix the Top Coat as described in Section II - A.
- D. Apply the screed coat to the primed concrete, with a hand trowel, at a rate of approximately 150-175 square feet per batch. Allow 4 hours curing time prior to applying the Knockdown Texture.

IV. Finish Options:

- A. Knockdown Texture:
 1. Air temperature for application of the Knockdown Coat mixture be between 10°C (50°F) and 43°C (110°F) and must remain so for a minimum of 8 hours.
 2. Using a hopper gun, spray the Knockdown Coating over the entire deck surface at a rate of 175 square feet per mix. CAUTION: AS WITH ANY SPRAY MATERIAL, BE CERTAIN TO PROTECT ALL SURROUNDING AREAS FROM OVER-SPRAY.
 3. When the material begins to dry, knock down the material with a trowel. TIP: To eliminate footprints, we suggest wearing metal spiked shoes (golf shoes) during this process.
 4. Allow the Knockdown to dry a minimum of 2 - 6 hours, depending on weather.
 5. Remove any sharp edges by scraping the surface with a scraper or trowel.

6. Air temperature for application of the GS88-1 Pigmented Sealer must be between 40°F and 110°F and must remain so for a minimum of 8 hours. Ensure humidity levels are low. Do not apply over moisture.
 7. The deck must be free of all surface contaminants, such as dust, dirt, etc., which will impair adhesion of the GS88-1 Pigmented Sealer
 8. Mix the GS88-1 Pigmented Sealer thoroughly with the use of mechanical mixers. All containers should be boxed and mixed to ensure consistent coloring throughout.
 9. Apply the GS88-1 Pigmented Sealer over the dry Knockdown application at a rate of 100 square feet per gallon using a 19mm (¾") paint roller nap, suitable for latex type coatings. Two Coats may be necessary.
 10. Allow GS88-1 Pigmented Sealer coat to dry for a minimum of 6 hours.
 11. To make cleaning easier in high traffic areas, a coat of GS13 or PDClear Sealer may be applied over the dry GS88-1 Pigmented Sealer at a rate of 200 square feet per gallon. Surface will become more slippery. Use of a non-skid agent is recommended.
- B. Polymer Sand Finish:
1. Air temperature for application of the Sand Finish must be between 40°F and 110°F and must remain so for a minimum of 8 hours. Do not apply over any moisture.
 2. Mix the GU80-1 Gray Base coat by pouring 1.5 gallons of GU80-1 Liquid Admixture into a clean 19L (5 gallon) plastic container. Add one 21kg (46lbs.) bag of GU80-1 Base Coat powder. Mix thoroughly for 3 to 4 minutes, with a Wind-lock B-M1 mixing blade, or equivalent, powered by a 13mm (1/2") variable speed drill, capable of producing 1000 RPMs. TIP: In areas subject to extremely dry, and/or hot climates, it may be necessary to add water (up to .47L [1 pint] per mix. To avoid flash drying it may be necessary to chill the GU80-1 Liquid Admixture, before mixing. Proper ventilation masks should be worn at all time when working with all Pli-Dek Products.
 3. Trowel the GU80-1 Base Gray coat over the entire deck surface at a rate of 100 to 125 square feet per mix.
 4. Broadcast aggregates of washed, dry, rounded, crystal silica sand, approximately 16 mesh at a rate of 100 lbs. per 100 square feet or until refusal (depending on skid resistance requirements) into wet/uncured Base Coat.
 5. Allow 6 hours before removing all excess silica sand. A proper ventilation mask should be worn at all times when working with Pli-Dek Products.
 6. Air temperature for application of the GS88-1 Pigmented Sealer must be between 40°F and 110°F and must remain so for a minimum of 8 hours. Ensure humidity levels are low.
 7. The deck must be free of all surface contaminants, such as dust, dirt, etc., which will impair adhesion of the GS88-1 Pigmented Sealer.
 8. Mix the GS88-1 Pigmented Sealer thoroughly by the use of mechanical mixers. All containers should be boxed and mixed to ensure consistent coloring throughout.

9. Apply the GS88-1 Pigmented Sealer over the dry sand finish at a maximum coverage rate of 75 sq. ft. per gallon, (2 coats may be necessary using a 19.1mm (¾") paint roller nap, suitable for latex type coatings. Two coats may be necessary.
 10. Allow GS88-1 Pigmented Sealer coat to dry for a minimum of 6 hours.
 11. To make cleaning easier in high traffic areas, a coat of GS13 or PD Clear Sealer may be applied over the dry GS88-1 Pigmented Sealer at a rate of 200 square feet per gallon. (Surface will become more slippery. Use of a non-skid agent is recommended.)
- C. Custom Finish – Simulated Tile, Brick & Stone:
1. Air temperature for application of the Custom Finish must be between 40°F and 110°F and must remain so for a minimum of 8 hours.
 2. Mix the GU80-1 Custom Top Coat as described in Section II - B. Add the selected color tint pack to establish the desired grout color. Note: All mixes must be consistent (use the same mix ratios) to maintain color consistency.
 3. The deck must be free of all surface contaminants, such as dust, dirt, etc. which will impair adhesion of the GU80-1 Custom Top Coat.
 4. Trowel a tinted GU80-1 Custom Top Coat over the entire deck surface at a rate of 150 square feet per mix. Allow to dry for a minimum of 2 – 6 hours. (Decorative scroll lines can be achieved at this step prior to screed coat drying, as long as no templates or tape are going to be used.)
 5. Install one of the various types of stencil patterns or install tape pattern over cured screed coat to achieve desired pattern finish.
 6. Mix the GU80-1 Custom Top Coat as described in Section II – B.
 7. Trowel a tinted screed coat over the stenciled or taped deck surface at a rate of 150 square feet per mix. Apply the desired texture while spreading the GU80 Custom Top Coat. Allow to dry for a minimum of 2 - 6 hours.
 8. Apply desired stain/shading with PD Stain using a low-pressure sprayer, soft broom, or sponge. Contact Pli-Dek, LLC. for complete details.
 9. Remove stencil or tape pattern.
 10. The deck must be free of all surface contaminants, such as dust, dirt, etc., which will impair adhesion of the GS13 or PD Clear Sealer.
 11. Apply a coat of PD Clear Sealer or GS13 Clear Sealer at a rate of 100 square feet per gallon. (2 coats may be necessary).

V. Slip and Fall Precautions:

OSHA, American Disabilities Act (ADA), and The Federal Housing Act (FHA) have now set enforceable standards for slip-resistance on pedestrian surfaces. Pli-Dek LLC 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.

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 LLC assumes no liability, expressed or implied, as to the architecture, engineering or workmanship of any project. To ensure that you are using the latest, most complete information, contact Pli-Dek LLC, at:



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* The Trained Applicator Certificate indicates certain employees of the company have been instructed in the proper application of Pli-Dek products and have received copies of the Pli-Dek Application Instructions and Specifications. The Trained Contractor Program is not an apprenticeship. Each trained contractor is an independent company and bears responsibility for its own workmanship. Pli-Dek LLC assumes no liability for the workmanship of a trained contractor.