

## PD TEXTURE COAT DECORATIVE CONCRETE COATING



### MATERIALS

1. GU80-1 Top Coat Powder
2. GU80-1 Custom Top Coat Powder
3. GU80-1 Liquid Admixture
4. GS88-1 Pigmented Sealer
5. GS13 of PD Clear Sealer

### TOOLS

1. Variable Speed Drill (capable of producing 1000 RPMs)
2. Wind-lock B-M1 mixing blade or equivalent
3. Extension Cord
4. Clean 5 Gallon Plastic Containers
5. Measuring Bucket (1 gal, 2 gal, etc.)
6. Hand Grinding Stone
7. Level
8. Pencil
9. Utility Knife
10. Scissors
11. Masking Tape
12. 4" x 22" Pool Trowel
13. Stainless Steel Trowel
14. Margin Trowel
15. Small Paint Brushes
16. Paint Roller (3/8" or 3/4" nap)
17. Extension Handle
18. Hopper Gun
19. Air Compressor (1½ Horsepower, electric or better)
20. Air Hose
21. Semi-stiff Broom
22. Dust Mask
23. Goggles
24. Rubber or Cloth Gloves
25. Metal Spiked Golf Shoes
26. Tin Snips
27. Crack Chaser Blade
28. Caulking Gun
29. Air Blower
30. 4" Makita Grinder
31. Pneumatic Staple Gun
32. Air Tool Oil
33. Hammer & Tape Measure
34. Metal Scraper

### 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)
2. All inspections, as required by local building authorities, shall be the responsibility of the contractor, owner, and/or their agent.

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 blistering and failure of the coating system. It is the General Contractors/Owners responsibility to ensure proper vapor barriers are in place. Pli-Dek Systems, Inc. and its sales agents will not be responsible for coating failures due to undetected moisture vapor emissions or related high levels of alkalinity. As a precaution, a calcium chloride test may be performed.

#### **B. Concrete Substrate**

1. The builder must give assurance that concrete has been installed according to the International Building Code (IBC) or ICC Building Code standards and requirements. The Pli-Dek applicators, and/or Pli-Dek Systems, Inc., will not be responsible for any deficiencies in the existing concrete substrate.
2. Curing and drying of concrete shall be 28 days before any Pli-Dek coating shall be applied to the surface. If any other product, 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 Systems, Inc. for details.

#### **C. Cleaning / Etching**

1. Take any necessary action to clean surface before proceeding with the Pli-Dek coating. If other sub-contractors have done damage, be sure to procure a signed additional work order.

#### **D. Preparation**

1. Prepare surface by grinding, or shot blasting. If grease or significant contaminants are present, contact Pli-Dek for additional instructions.
2. The concrete shall be porous, and have a minimum CSP-2 Rating, suitable to receive coating.
3. Moisture & Vapor Transmission Testing refer to Concrete Moisture & Vapor Transmission Testing Technical Bulletin (TB-111).



4. Apply a primer coat that consists of 4 parts water and 1 part GU80-1 Liquid Admix at a rate of approximately 200 square feet per gallon.

#### **E. Crack Treatment** (Crack Treatment is NOT warranted)

1. Rout-out cracks with a crack chaser blade 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. NOTE: Additional control joints should be cut where necessary, as recommended by the structural engineer.
2. Fill cracks with the manufacturer recommended urethane caulking, 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.
3. All existing expansion joints should be honored or remain in the assembly. Additional control joints may be necessary to allow for future movement.

The Pli-Dek installer and/or Pli-Dek Systems, Inc. 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. Screed Coat and Knockdown 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 (46lbs.) 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") variable speed drill, capable of producing 1000 RPM's. 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 ventilation masks should be worn at all times when working with all Pli-Dek materials.
3. A Pli-Dek recommended tint pack may be added to the mix to achieve the desired color. Note: Ensure that all of the colorant is dispersed out of the container. *All mixes must be consistent (use the same mix ratios) to maintain color consistency.*

### **B. Custom Top Coat**

1. Pour 4.75L (1.25 gallon) of GU80-1 Liquid Admixture into a clean 19L (5 gallon) plastic container.
2. Add one 21kg (46lb.) bag of Custom Top Coat and mix thoroughly for 3 to 4 minutes. Use a

Wind-lock G-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. A proper safety ventilation mask should be worn when working with all Pli-Dek products.

3. A Pli-Dek recommended tint pack may be added to the mix to achieve the desired color. Note: Ensure that all of the colorant is dispersed out of the container. *All mixes must be consistent (use the same mix ratios) to maintain color consistency.*

## **III. SCREED APPLICATION**

1. 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.
2. 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.
3. Mix the Top Coat as described in Section II - A.
4. 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. NOTE: If a screed coat was not needed. The knockdown texture coat can be sprayed directly over the concrete. However, before spraying the texture, the concrete shall be primed as directed in the Section III- 2 above. If a screed coat was applied, no primer is required.
2. Air temperature for application of the Top Coat mixture must be between 10°C (50°F), and 43°C (110°F), and must remain so for a minimum of 8 hours.
3. The substrate must be free of all surface contaminants, such as dust, dirt, etc., which will impair adhesion of the Top Coat mixture.
4. Grind any rough areas that will affect the aesthetic appearance of the finished product.
5. Mix the Top Coat as described in Section II - A.



6. Using a hopper gun, spray the Top Coat mixture over the entire deck surface, at a rate of 150 square feet per mix. CAUTION: AS WITH ANY SPRAY MATERIAL, BE CERTAIN TO PROTECT ALL SURROUNDING AREAS FROM OVER-SPRAY.
7. When the material begins to dry, knockdown the material with a trowel. TIP: In order to eliminate footprints, we suggest to wearing metal spiked shoes (golf shoes) during this process.
8. Allow the Top Coat mixture to dry a minimum of 1 – 6 hours.
9. Remove any sharp edges by scraping the surface with a scraper or trowel.
10. Air temperature for application of the GS88-1 Sealer must be between 13°C (55°F) and 43°C (110°F), and must remain so for a minimum of 8 hours. Ensure humidity levels are low. Do not apply over moisture.
11. The substrate must be free of all surface contaminants, such as dust, dirt, etc., which will impair adhesion of the GS88-1 Sealer.
12. Mix the GS88-1 Sealer thoroughly by boxing, stirring, or by using a mechanical mixer. Box and mix all containers to ensure consistent coloring throughout.
13. Apply the GS88-1 Sealer over the dry Knockdown Coat at a rate of 100 sq. ft. per gallon using a 19.1mm (3/4") paint roller nap, suitable for latex type coatings. Two coats may be necessary.
14. Allow GS88-1 Sealer coat to dry for a minimum of 6 hours.
15. 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 sq. ft. per gallon. (Surface will become more slippery. Use of a non-skid agent is recommended.)

#### **B. CUSTOM FINISH - SIMULATED TILE, BRICK & STONE**

1. Air temperature for application of the Custom Finish must be between 10°C (50°F) and 43°C (110°F) and must remain so for a minimum of 8 hours. Ensure humidity levels are low. Do not apply over moisture.
2. Mix the Top Coat as described in Section II- A. 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 Top Coat materials.
4. 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.

5. Trowel the tinted Top Coat over the entire concrete 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. Contact Pli-Dek Systems, Inc. for details.)
6. Install one of the various types of stencil patterns or install tape pattern over cured screed coat to achieve desired pattern finish.
7. Mix the Custom Top Coat as described in Section II- C. Add the selected tint pack to establish the desired color top coat. *Note: All mixes must be consistent (use the same mix ratios) to maintain color consistency.*
8. Trowel a tinted top coat over the stenciled or taped deck surface at a rate of 150 square feet per mix. Allow to dry for a minimum of 2-6 hours.
9. Apply desired Pli-Dek stain/shading using a low pressure sprayer, soft broom, or sponge. Contact Pli-Dek Systems, Inc. for complete details.
10. Remove stencil or tape pattern.
11. 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.
12. Apply a coat of GS13 or PD Clear Sealer at a rate of 200 sq. ft. per gallon. (2 coats may be necessary. Use of a non-skid agent is recommended).

#### **C. POLYACRYLIC SMOOTH FINISH**

1. Air temperature for application of the Polyacrylic smooth finish must be between 10°C (50°F) and 43°C (110°F) and must remain so for a minimum of 8 hours. It may be necessary to grind the rough ridges of the Base Coat to minimize chatter lines.
2. Mix the GU80-1 Top Coat as described in Section II – B.
3. Trowel a screed coat over the entire deck surface at a rate of 150 square feet per mix. Allow it to dry for a minimum of 6 hours.
4. It may be necessary to apply an additional coat of GU80-1 Custom Top Coat to create a smoother finish. Coverage rate should be approximately 200 square feet per mix. **\*\*Please note:** Surface will not be perfectly smooth and will have some imperfections/variations.
5. Air temperature for application of the GS88-1 Sealer must be between 13°C (55°F) and 43°C (110°F) and must remain dry for a minimum of 8 hours. Ensure humidity levels are low. Do not apply over moisture.
6. Prior to color coat application, remove any high or rough edges using a hand grinding stone or scraper.



7. The deck must be free of all surface contaminants, such as dust, dirt, etc., which will impair adhesion of the GS88-1 Sealer.
8. Mix the GS88-1 Sealer thoroughly by mixing with the use of a mechanical mixer. Box mix all containers to ensure consistent coloring throughout.
9. Apply the GS88-1 Sealer using a 19mm (3/4") nap paint roller, suitable for latex type coatings, at a rate of 100 square feet per gallon (2 coats may be necessary).
10. 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.)

#### D. Broom Finish

1. Air temperature for application of the Polyacrylic broom finish must be between 10°C (50°F) and 43°C (110°F) and must remain so for a minimum of 8 hours.
2. Mix the GU80-1 Top Coat as described in Section II – B.
3. Trowel a screed coat over the entire deck surface at a rate of 150 square feet per mix. Allow it to dry for a minimum of 6 hours.
4. Finish the GU80-1 "wet" Top Coat mix with a fox – tailed broom to the desired texture.
5. Once the GU80-1 Top Coat has cured, scrape off any rough edges. \*\*Please note: Surface will not be perfectly smooth and will have some imperfections/variations.
6. Apply the GS88-1 Sealer using a 19mm (3/4") nap paint roller, suitable for latex type coatings, at a rate of 100 square feet per gallon (2 coats may be necessary).

#### E. Slip and Fall Precautions

1. 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 users 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

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\* The Trained Applicator 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 Systems Inc. assumes no liability for the workmanship of a trained contractor.

