

DIVISION 7 – THERMAL AND MOISTURE PROTECTION
SECTION 07 18 13 PEDESTRIAN TRAFFIC COATINGS
PLYWOOD SURFACE(S)

1.00 GENERAL REQUIREMENTS

1.01 WORK INCLUDED

- A. Provide labor, equipment and materials to complete waterproofing on wood framed assemblies, suitable and compliant for pedestrian traffic, which requires waterproofing. The objective of this specification is achieved the installation of a system of an expanded metal lath that is embedded into a polymer cement, followed by a fiberglass fabric embedded into an acrylic resin, with multiple polymer cement finishes and a high polymer acrylic sealer coat, that will make up a walking deck and roof covering system.
- B. Typical installations include new installations or remodeling/refurbishment of balconies, terraces, decks, roof decks, and walkways.
- C. Conduct work as indicated on the drawings and as specified herein.

1.02 RELATED SECTIONS

- A. Specified elsewhere:
 - 1. Section 07 24 00 Exterior Insulation and Finish Systems
 - 2. Section 09 97 26 Cementitious Coatings
 - 3. Section 07 01 10.81 Waterproofing Replacement
 - 4. Section 07 10 00 Dampproofing and Waterproofing
 - 5. Section 07 14 00 Fluid Applied Waterproofing
 - 6. Section 07 14 16 Cold Fluid Applied Waterproofing
 - 7. Section 07 16 13 Polymer Modified Cement Waterproofing
 - 8. Section 09 09 00 Finishes
 - 9. Section 09 94 00 Decorative Finishing
- B. References:
 - 1. ICC-ES
 - 2. City of Los Angeles Research Report
 - 3. Florida Product Approval
 - 4. California Office of the State Fire Marshall (SFM)
- C. Notes to Users of this Document (e.g., Architects, Engineers, Designers and Consulting Professionals):
 - 1. This specification is supplied in an exhaustive format with the intent of achieving as comprehensive inclusion of project factors as possible.

2. The specifier is NOT obligated to utilize this specification in entirety, but instead is encouraged to adopt/adapt/apply those provisions which are applicable to specific projects.
3. The Design Services Team (DST) of the ICP Building Solutions Group has prepared this overall specification. Users of this specification are strongly encouraged to engage DST's resources and industry expertise in customizing this specification:ⁱ
 - a. Web: <https://www.icpgroup.com/programs/masterworks/>
 - b. Email: specifications@icpgroup.com
 - c. Phone: 800-342-3755 x 2241
4. All construction projects are unique. Ultimately, it is the responsibility of the involved parties (e.g., Installer/Applicator, Remediator/Restorer, General Contractor, Owner, Client, Enforcement Authority, Architect, Engineer or Consultant) to verify on a case-by-case basis that applications of this specification are appropriate.
5. Deviation: Certain projects will involve unavoidable circumstances that prevent project execution in full accord with industry professional standards of care, and the tenets of this specification. A separate and specific specification should be developed in consultation with all parties, including product manufacturers, when deviation the only option for achievement of the objectives of the property owner.
6. Where contradicted by federal, state or local laws and regulations, any of the preceding supplant the information in this document.

1.03 QUALITY ASSURANCE

A. Cited Standards are incorporated herein by reference and govern the work:

1. Lead Standard: 29 CFR 1910.1025 and 29 CFR 1926.62, U.S. Occupational Safety and Health Administration (OSHA) (1993)
2. South Coast Air Quality Management District (SCAQMD): Rule 1113 - Architectural Coatings.
3. Water Vapor Transmission (ASTM E 96)
4. Bond Strength (ASTM C 297)
5. Accelerated Aging (ASTM D756)
6. Abrasion Resistance (ASTM D 968)
7. Water Absorption (ASTM D570)
8. Impact Resistance (ASTM D3746)
9. Freeze-thaw (ASTM C67)
10. Accelerated Weathering (ASTM G 23)
11. Surface Burning (ASTM E 84)
12. Chemical Resistance (ASTM D2299)
13. Spread of Flame (ASTM E108)
14. Fire Tests of Roof Coverings (ASTM E108)
15. One-Hour System (ASTM E119)
16. Intermittent Flame (ASTM E108)
17. Static Coefficient of Friction (ASTM C 1028-96)
18. Resistance of Plastic Materials to Abrasion (ASTM D 1242)
19. Tensile Strength (ASTM D2707)
20. Compressive Strength (ASTM C150-72)

- B. Substrates: Systems approved and specified herein should be applied over the following horizontal substrates when prepared in accordance with this specification:
1. Exterior Grade Exposure 1 Sheathing
 2. Plywood Decks
 3. OSB (Contact approved manufacturer for specific information)
 4. Dek C-Ment
 5. Rehabilitation Projects (Contact approved manufacturer for additional information)
- C. Single Source Responsibility: Obtain all product system components from a single manufacturer with not less than 20 years of successful experience in manufacturing and specifying installation of the principal materials described in this specification. Provide secondary/supplementary materials only of type and from a source recommended by the manufacturer of the primary material(s).
- D. Contractor Experience: The installer shall be a firm or individual experienced with the objectives of this specification. Contractor must furnish the following proof of experience:
1. Letter or Certificate provided directly by Approved manufacturer(s) stating that contractor (including project dedicated supervisor(s)) has/have completed and satisfactorily demonstrated competent understanding of instructional training in general, and specific use of each of the Approved system components. ⁱⁱ
- E. Sampling of Material:
1. When directed by Architect/Engineer, obtain test samples from material stored at the project site or source of supply (distributor or manufacturer).
- F. Pilot Application/Mock-Up: Upon request (By Owner, Client, Enforcement Authority, Assessor, Architect or Engineer), it may be determined necessary to provide a mock-up for evaluation of surface preparation techniques, validation of performance expectations, and anticipated application workmanship.
1. The applicator shall make and submit a sample of the proposed finish to the architect and/or owner for approval.
 2. Do not proceed with remaining work until pertinent project authority (By Owner, Client, Enforcement Authority, Assessor, Architect or Engineer), approves the mock-up.
- 1.04 SUBMITTALS (as directed to Owner, Client, Enforcement Authority, Assessor, Architect, Engineer or Consultant)
- A. Submit electronically product information including technical data, labels and warranty (if applicable).
- B. Submit electronically Manufacturer's Safety Data Sheets (SDS). Content of VOCs shall not exceed pertinent regulations regarding VOCs.

Notes:

1. Bidders are encouraged to submit materials that meet the Basis of Design. In order to have a material accepted as Approved for the work outlined herein the alternate or substitute proposed must be received by the architect for evaluation and approval no

less than 21 days prior to the original published bid date. Approved alternate products will be by Addendum only. Submittals circumventing this process will not be approved and will not be acceptable for inclusion in this project.

2. Substitutions will only be considered for products manufactured by companies of primarily U.S. or Canadian ownership.

1.05 PRODUCT DELIVERY, STORAGE AND HANDLING

- A. Deliver manufacturer's unopened containers to the work site. Packaging shall bear the manufacturer's name, label, and product number.
- B. Storage of materials:
 1. Store only acceptable project materials on site.
 2. Store in suitable and secured location convenient to progress of work.
 3. Comply with health and fire regulations. No products listed in the Basis of Design are flammable or combustible.
 4. Storage temperature shall be between 40° F (4.5 C) and 110° F (43 C), or such other ambient temperature conditions as may be specifically recommended by product manufacturer.
 5. Products shall not be permitted to freeze on site, and delivery should be refused if freezing during transit is probable.
 6. Avoid storage directly in hot sun exposures or excessive temperatures.
 7. Keep containers tightly closed when not in use.
 8. Store securely closed and upright in original container. Lids or caps can leak if containers are placed on side.
 9. Keep out of reach of children.
- C. Handling:
 1. Dispose of materials in accordance with requirements of local authorities having jurisdiction.
 2. Verify that products are within acceptable shelf life, and do not utilize any product that is older than the maximum shelf life stated by the manufacturer.
- D. Extra Materials:
 1. Furnish extra coating materials in the quantities agreed in advance. Package with protective covering for storage and identify with labels describing contents. Deliver extra materials to Owner. OR,
 2. Furnish Owner with sufficient additional coating to address an additional one percent of overall surface area, but not less than 1 gal (3.8 l), pail (19 l), or 1 case, as appropriate and collectively agreed upon in advance of substantial completion.

1.06 JOBSITE CONDITIONS

- A. Environmental requirements

1. Comply with manufacturer's recommendations as to environmental conditions under which all chemicals and coatings can be applied.
 - a. Temperature: Do not apply products at temperatures beyond limits stated in the manufacturer's technical data sheet unless given written permission by the manufacturer.
 - i. At Application: The ambient air and surface temperature shall be a minimum of 4.5°C (40°F) and a maximum of 43°C (110°F) and shall remain so for at least 24 hours.
 - ii. For additional application requirements in Inclement Weather areas, refer to the Approved Manufacturer's Technical Bulletin TB-110.
 2. Surface/Substrate Moisture:
 - a. Consult manufacturer regarding whether topical dampness (latent moisture tangible by touch) after wet cleaning or recent precipitation is acceptable at time of application of coatings, or if a completely dry (absence of above-normal topical and subsurface moisture) surface is required. Applicators are expected to account for slow-drying surface elements (such as shaded areas, hairline cracks, nail holes). ⁱⁱⁱ
- B. Surface Protection/Prevention of Cross-Contamination:
1. Cover or otherwise protect adjacent areas. Identify adjacent areas which could be cross contaminated by construction activity.
 2. Careful attention should be paid to any occupied areas in the vicinity of the work area.
 3. Utilize adequate engineering controls to ensure worker and occupant safety and health and prevent cross-contamination. Engineering controls may include, but are not limited to, source containment, isolation barriers, pressure differentials, dust suppression, and high efficiency particulate air (HEPA) vacuuming and filtration.
- C. Provide adequate illumination and ventilation.
- D. The applicator shall have access to electrical power, clean potable water, and clean work area at the location where the materials are to be applied.

2.00 PRODUCTS

2.01 MATERIALS (Basis of Design)

- A. Pli-Dek LLC or its authorized distributors shall supply all products.
- B. Substitutions or additions of other materials will void the warranty
- C. Components:
 1. GU80-1 Gray Base Mix:
 - a. Portland cement and silicon dioxide composition that is to be combined with Pli-Dek Liquid Admixture GU80-1.
 2. GU80-1 Top Coat Mix:
 - a. Portland cement and silicon dioxide composition that is to be combined with Pli-Dek Liquid Admixture GU80-1.
 3. GU80-1 Custom Top Coat Mix:
 - a. Portland cement and silicon dioxide composition that is to be combined with Pli-Dek Liquid Admixture GU80-1.

4. GU80-1 Liquid Admixture: An acrylic polymer emulsion.
5. GS88-1 Pigmented Sealer: A pigmented water based acrylic surface sealer.
6. Fiberglass Mat: Chopped strand .75 oz. woven mat.
7. PD Resin: A high build elastomeric acrylic resin.
8. GS13 or PD Clear Sealer: Water-based or Solvent-based, clear sealer(optional).

D. Materials

1. Water: Shall be clean and potable.
2. Caulking: Urethane based.
 - a. Contact Pli-Dek for recommendations.
3. Flashing: 26 gauge bonderized, galvanized sheet metal.
 - a. For Inclement Weather areas, bonderized flashing is not recommended (refer to Technical Bulletin TB-110 Inclement Weather).
4. Metal Lath: 2.5 lbs/sq yd, an expanded metal lath, that is hot dipped not electro-galvanized
 - a. G60 for standard applications.
 - b. G90 for Inclement Weather applications (Refer to Application Instructions PD-120-IW for additional information).

2.02 COLORS – See Notes in Supplementary section.^{iv}

2.03 MIXING

- A. Mixing shall be done with a clean Wind-lock B-M1 mixing blade or equivalent powered by a 13-mm (1/2”) variable speed drill capable of producing 1000 RPM.
- B. Refer to the Pli-Dek ICC ESR-2097 Application Instructions, PD-120 or PD-120-IW, for a complete list of component mixing instructions.

3. EXECUTION

3.01 EXAMINATION

- A. Installers should conduct an initial inspection before commencing work regardless of prior evaluations by other parties.
- B. When preceding evaluations indicate that unacceptable conditions exist, an assessment should be performed prior to starting work.

3.02 PREPARATION OF WORKSITE, SURFACES

A. WORKSITE PREPARATION

1. The first responsibility of the installer upon arrival to site of is to ensure the safety of workers and occupants.
2. Coordinate commencement of work with owner so as not to cause inconvenience to the facility.
3. Post notices in conspicuous areas multiple days in advance of beginning work on specified phase (as agreed to with Owner or Owner’s agent), noting start date, any instructions to occupants and business phone number. Utilize signage as recommended or required by local ordinance and industry standard.^v

B. HAZARDOUS MATERIALS IN STRUCTURES:

1. There are many hazardous materials which can be present in older structures where installers perform work. Common hazards can include, but are not limited to, asbestos, lead, mercury, mold and PCBs.
2. Determination as to whether these or other potentially hazardous materials are present, may have been conducted by a consulting professional, certified industrial hygienist or other IEP. The installer should ask about whether such an evaluation was conducted, and what potentially hazardous materials were identified, if any. The contractor should not assume that hazardous materials are not present.
3. Lead: Even when building age suggests that lead paint is unlikely to be present, the owner or owner's agent should be consulted to verify. Use of lead-based paint was not banned for residential use in the United States until 1978, but other uses of lead continue to present day.
4. Asbestos: Even when building age suggests that asbestos is unlikely to be present, the owner or owner's agent should be consulted to verify. Use of asbestos in the United States declined significantly in the United States and Canada during the 1980s but import and uses of asbestos-containing construction products continues to present day.
5. Abatement or disturbance of asbestos or lead typically require contracting firms, supervisors and workers to have a state-issued license. License types and requirements vary, and the restoration firm or professional should contact the pertinent agency in the state where the site is located to ascertain minimum training and licensing requirements.

C. EXAMINATION:

1. Before any waterproofing 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.
2. Conditions of Plywood Substrates:
 - a. Ensure that the substrate is of sound and dry exposure 1 sheathing.
 - b. Refer to ICC-ES ESR 2097 Report for framing requirements.
 - i. Framing or blocking must support all plywood edges, except as per APA guidelines, blocking is not required when tongue and groove plywood is used. Joists to be spaced 16" on center. For alternate assemblies contact Pli-Dek Systems, Inc. for written approval.
 - c. Plywood should be installed with a 6.4mm/.3m (1/4") per linear foot slope. Decks with parapet enclosures must be sloped to a drain or scupper.
 - i. Pli-Dek requires a galvanized, copper, or stainless-steel deck drain as per Drain Detail, PD-24 or PD-24-IW, on all plywood installations. Please contact Pli-Dek for help in acquiring these drains. Do not use plastic or shower drains, use of these types of drains will void warranty. If copper drains are used, please contact Pli-Dek for instructions on dissimilar metals.
 - d. The assembly should be built to slope a recommended ¼" per foot towards outside edges or scuppers or drains.
 - e. Flashing shall be minimum 26 gauge galvanized, bonderized sheet metal, (contact Pli-Dek for Alternatives).
 - i. For Inclement Weather areas, bonderized flashing is not recommended (refer to Technical Bulletin TB-110 Inclement Weather).
 - f. Proper flashing must be installed at all doors, walls, fascia edges, posts, penetrations, columns, etc.

- g. Flashing must be installed to accommodate all exterior wall coating applications from coming in contact with the deck surface. Exterior siding, stucco, etc. must be held off the deck a minimum of 2".
- h. All flashing splices must be overlapped a minimum of 4" and caulked between any two pieces of flashing with ASTM C-920 polyurethane joint sealant or equivalent.
- i. All vertical flashing shall be coated with ¾ oz. Fiberglass and PD Resin or PD Flash Coat and Flash Coat Seam Tape or self-adhering drywall mesh tape, GU80 Top Coat, and GS88 Pigmented Sealer at the time of applying each product as well as the face of the drip edge perimeter flashing. *NOT REQUIRED IN NON-INCLEMENT WEATHER AREAS
- j. Flashing at walls must be installed behind the building paper (or equivalent) on all areas that intersect the deck surface.
- k. (Optional) All door pans, threshold flashing, and deck to wall flashings shall be coated with ¾ oz. Fiberglass and PD Resin or PD Flash Coat and Flash Coat Seam Tape or self-adhering drywall mesh tape.
 - i. For Inclement Weather areas, deck to wall coatings is not optional (refer to Technical Bulletin TB-110 Inclement Weather).

3.03 GENERAL SURFACE PREPARATION INSTRUCTIONS FOR ALL SUBSTRATES

A. SURFACE PREPARATION:

1. All seams in plywood shall be gapped 3.2 mm (1/8") and covered with a maximum of 50 mm (2") wide Pli-Dek approved flashing paper and tacked in place.
2. Plywood shall be free of dust, moisture and/or other debris or residue that would affect adhesion.
3. Delaminated plywood shall be replaced with sound plywood.
4. Fascia boards shall be installed to be level with the plywood substrate.
5. Lay out appropriate 2.5 lbs/sq yd Hot Dipped Galvanized Metal Lath in a staggered pattern over the entire plywood surface overlapping the metal flashing, to the edge of the deck surface.
6. Overlap all edges of metal lath, a minimum of 13mm (3/4").
7. Offset metal lath edges a minimum of 150mm (6") from plywood seams. (See DECK PLAN in the Pli-Dek Detail PD-1 or PD-1-IW).
8. Secure metal lath to plywood with a minimum 22mm (7/8") crown by a minimum 16mm (5/8") long corrosion resistant staples spaced approximately 1½" on center around the perimeter and on overlapped lath seams, and 75mm (3") in the field (approximately 12 staples per square foot).
9. Additional staples spaced every 1½" on center are required where the metal lath overlaps the seam paper.

3.04 APPLICATION

A. BASE COAT:

1. Apply GU80-1 Gray Base Coat in accordance with Application Instructions. Allow the GU80-1 Gray Base to fully cure (approximately 4-6 hours depending on environmental conditions) prior to applying the next application. If the base coat does not cover the lath completely, a screed coat of GU80-1 Gray Base or GU80-1 Top Coat is required.

- B. SCREED COAT APPLICATION (OPTIONAL):
1. Apply a Screed Coat of GU80-1 Top Coat or GU80-1 Custom Top Coat over the previously applied Fiberglass and PD Resin. Allow to dry completely, for approximately 2-6 hours, depending on weather conditions.
- C. PLI-DEK "F" SYSTEM (FIBERGLASS and PD RESIN COATS)
1. This application becomes required when job conditions may experience excessive movement, or if being installed in Inclement Weather Areas (Refer to Technical Bulletin TB-110 or Inclement Weather Application Instructions PD-120-IW.)
 - a. Examples: cantilevered decks, large spanning decks, or if the dimensions of the deck are approximately 8' x15' or larger, or joist spacing greater than 16" O.C., etc. Contact Pli-Dek, LLC for written recommendations. Some geographic locations may require the Fiberglass and PD Resin Coating in ALL applications. Contact Pli-Dek, LLC for written verification.
 2. Lay out ¾ oz. fiberglass mat, overlapping metal flashing to the horizontal edge and overlap seams by a minimum of ¼".
 3. Thoroughly mix the PD Resin and then pour PD Resin over the fiberglass mat and apply with a pool trowel at a rate of approximately 40 - 50 square feet per gallon. Allow 6 – 8 hours to dry.
 4. Deck area must be free of all surface contaminants, such as dust, dirt, etc. Remove any loose areas, where fiberglass did not bond to the concrete and reapply PD Resin and fiberglass as needed before application of second coat.
- D. SCREED COAT (OPTIONAL)
1. Apply a Screed Coat of GU80-1 Top Coat or GU80-1 Custom Top Coat over the previously applied Fiberglass and PD Resin. Allow to dry completely, for approximately 2-6 hours, depending on weather conditions.
- E. FINISH COAT PREPARATION
1. Knockdown Texture Finish:
 - a. Using a hopper gun, spray the GU80-1 Top Coat over the entire deck surface at a rate of 150 square feet per mix. When the material begins to dry, knockdown the material with a trowel.
 - b. Allow the Knockdown to dry a minimum of 2 - 6 hours, depending on weather. Remove any sharp edges by scraping the surface with a scraper or trowel.
 - c. 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, such as a ¾" non-shedding nap roller (2 coats may be necessary). Allow GS88-1 Pigmented Sealer coat to dry for a minimum of 6 hours.
 2. Polymer Sand Finish:
 - a. Trowel the GU80-1 Base Coat over the entire deck surface at a rate of 100 to 125 square feet per mix.
 - b. 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. Allow 6 hours before removing all excess silica sand.
 - c. Apply the GS88-1 Pigmented Sealer over the dry Polymer Sand Finish application at a rate of 75 square feet per gallon using a 19mm (¾") paint roller nap, suitable for

latex type coatings, such as a ¼" non-shedding nap roller (2 coats may be necessary). Allow GS88-1 Pigmented Sealer coat to dry for a minimum of 6 hours.

3. Pli-Dek "U" (Underlayment):
 - a. The fiberglass and PD Resin coat is required over the expanded metal lath and the GU80-1 Gray Base Coat. Fiberglass and PD Resin or PD Flashcoat must be applied up the vertical leg of the wall to deck flashing and inside the door pan flashing.
 - b. Apply a screed coat of GU80-1 Top Coat over the entire deck and up the vertical leg of all flashings at a rate of 150 square feet per mix. Allow to dry for a minimum of 2 - 6 hours.
 - c. Allow a minimum of 8 hours prior to installing any finished product over the screed coat.
4. Custom Finish: Simulated Tile, Brick and Stone:
 - a. The GU80-1 Custom Top Coat should be troweled down over the substrate with the desired color added to the mix at a rate of 150 square feet per mix.
 - b. Darker colors are recommended to help hide the PD Stain. Once the GU80 Custom Top Coat has cured, for a minimum of 2-6 hours, the stencils can be applied.
 - c. After applying the stencil, trowel GU80 Custom Top Coat with the desired color into the template using the thickness of the template as a guide, at a rate of 150 square feet per mix. Texture can be added to the wet mix if desired.
 - d. After the GU80-1 Custom Top Coat Mix has cured, allow for a minimum of 2-6 hours. the stencils should be removed.
 - e. Once the surface is swept up, the PD Stain can be used to create the desired modeling. Samples should be made prior to the finish coat application and approved.
 - f. Allow PD Stain to cure, under normal conditions, PD Stain cures in 10 to 60 minutes, under adverse weather conditions, cure time could increase to 24 hours. Once PD Stain has cured, the surface should be sealed with the desired Pli-Dek Clear Sealer.
 - g. For exterior applications, apply a coat of GS13 or PD clear Sealer at a rate of 200 sqft. per gallon (2 coats may be necessary). For interior applications, apply Resinyte Urethane 100 at a rate of approximately 225-270 sqft. per gallon with a squeegee and back rolled with a ¼" non-shedding nap roller. Use of non-skid agent is recommended on smoother finishes.

3.05 CLEANING

- A. Remove remaining debris promptly from work area and dispose of properly.
- B. Remove spilled, splashed, or splattered coating materials from all surfaces.
- C. Do not mar surface finish of items being cleaned.
- D. Cleanup tools and other equipment with warm, soapy water before coating dries.
- E. Review product labels for proper disposal of unused product and empty containers.

3.06 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 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 LLC. 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.

3.07 WARRANTY

- A. Installer shall provide Owner, through Assessor, Architect/Engineer, with an acceptable form of warranty against defects in workmanship for a period of one (1) year from date of substantial completion.
- B. Issuance of manufacturer warranty shall not be a condition precedent to extension to manufacturer an opportunity to inspect, and/or documentation of installer procedures during remediation. Manufacturer must sign warranty for document to be valid.
- C. Extent of warranty shall be limited to the repair or replacement of defective surfaces at no cost to the Owner, and for any damage directly resulting from such defects during the warranty period of 10 years. The warranty shall not include any remedy for repair labor, or for defects caused by abuse, improper maintenance or operation, or by normal wear, tear and usage. Contact the manufacturer for the entire warranty. This section is informative only and does not constitute a warranty.

END OF SECTION

END NOTES

This section is provided as a courtesy to the specifier or project designer/manager.
This section may be included or excluded in the project specific specification at their discretion.

ⁱ ICP Design Services is a multi-disciplinary, support-oriented resource for industry professionals looking to intelligently manage projects. Part of the ICP BUILDING SOLUTIONS GROUP (previously ICP CONSTRUCTION), DST provides assistance in project design, specification implementation, and the execution of structural construction projects involving any of the more than 14,000 products manufactured by [ICP Group](#) (Innovative Chemical Products). The mission of the Design Services Team is to convey knowledge and solutions of unsurpassed accuracy and innovation to the professionals that conceive, construct, repair and maintain our built environment. The purpose of DST is to be an active partner with contractors, architects and builders to develop and deliver quality solutions from our extensive product line offerings that benefit their business & projects. In addition to provision and customization of specifications, DST resources include: compliance expertise, training/continuing education, standards development, institutional approval support and qualified applicator referrals. To access the ICP Design Services Team:

Web: <https://www.icpgroup.com/programs/masterworks/>
Email: specifications@icpgroup.com
Phone: 800-342-3755 x 2241

ⁱⁱ The ICP BUILDING SOLUTIONS GROUP (previously ICP CONSTRUCTION) provides product training via our MasterWorks portal (activation February 2020). The Environmental Restoration Group (ERG includes Fiberlock and Benefect) management team and field representation will designate on a project-by-project basis the MasterWorks curriculum necessary to be qualified for a specific project. To access MasterWorks, contact the Design Services Team at:

<https://www.icpgroup.com/programs/masterworks/>
Email: specifications@icpgroup.com
Phone: 800-342-3755 x 2241

ⁱⁱⁱ Moisture content in different types of structural materials are measured on different scales, and the measurement scales of moisture detection instruments (e.g., moisture meters can vary among manufacturers of these devices.) Consult the manual from the moisture meter manufacturer for instructions concerning substrate type and scale of measurement for that material.

^{iv} ADVISORY:

- Reference the Pli-Dek Color Card for available standard colors. If a custom color is required, contact Pli-Dek for additional information.
- This specification does not fully describe all the limitations, warnings and precautions related to the products described herein.
- Reference should be made to the Technical Product Data Sheets for complete technical information on all products manufactured by Pli-Dek, a brand division of ICP BUILDING SOLUTIONS GROUP (BSG).

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- Safety Data Sheets (SDS) should be referred to for health and safety information. Copies of all SDS sheets can be obtained by emailing infoplidek@icpgroup.com.

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