

Masters Pickleball Float System Specification



PART 1 – GENERAL

1.1 DESCRIPTION

- A. Scope: This guide specification covers the installation of the Laykold Masters Pickleball Float system. Advanced Polymer Technology Corporation of Harmony, Pennsylvania, U.S.A provides technical data and guideline specifications only. Consult with a professional engineer or architect for a formal specification. The Laykold Masters Pickleball Float system are resilient, polyurethane/rubber/acrylic composite court systems utilizing a prefabricated rubber shock pad with a highly flexible acrylic color finish. The systems increase player comfort by significantly reducing shock to the back and lower extremities. The Laykold Masters Pickleball Float system should be applied only to properly prepared concrete or asphalt substrates. This cushioned pickleball surface is comprised of LM Flexfill (asphalt only), Epoxy Moisture Mitigation Primer (Concrete Only), LM Adhesive, LM 5 Shock Pad, Laykold Crack Filler, LM Wearcoat, LM Bond- Kote, LM Filler, and the LM Topcoat.
- B. Court Construction: Refer to the ASBA/USA Pickleball Construction Manual [Pickleball Courts: A Construction & Maintenance Manual](#) for court construction details. This publication may be obtained by visiting usapickleball.org or www.sportsbuilders.org.

1.2 QUALITY ASSURANCE

- A. All pickleball court surfacing materials shall be Laykold Masters Pickleball Float System as supplied by Advanced Polymer Technology (APT) of Harmony, PA, an ISO 9001 and ISO 14001 certified manufacturer. APT may be contacted via telephone 888-266-4221, fax 724-452-1703, or web sites www.laykold.com and www.advpolytech.com.
- B. All work shall be done in accordance with USA Pickleball and American Sports Builders Association (ASBA) guidelines.
- C. The contractor shall record the batch number of each product used on the site and maintain it through the warranty period.
- D. The contractor shall provide the inspector, upon request, an estimate of the volume of each product to be used on the site.
- E. Installation must be performed by a manufacturer trained and authorized LM Dealer.

1.3 SUBMITTALS

- A. Submit one set of Advanced Polymer Technology "Laykold Masters Pickleball Float System Specifications".
- B. Submit system components Technical Data Sheets (TDS) and one Laykold Color Chart.



- C. Submit current Safety Data Sheets (SDS).
- D. Submit current ISO Quality Management System Certification certificate.

1.4 WORKING CONDITIONS & LIMITATIONS

- A. Asphalt substrates shall be allowed to cure a minimum of 14 days and concrete substrates shall be allowed to cure a minimum of 30 days before application of any coatings. If time sensitive and/or high RH level is present, an epoxy moisture mitigation primer can be applied to 5-day old (minimum) concrete substrates according to manufacturer guidelines.
- B. The substrate shall be CLEAN and DRY before coatings are applied. The surface of the substrate shall be inspected and made sure to be free of grease, oil, dust, dirt, and other foreign matter before any coatings are applied.
- C. Concrete substrates must be shot blasted, or hydro blasted to a CSP3 profile, if receiving an Epoxy Moisture Mitigation Primer.
- D. Water used in all mixtures shall be fresh and potable.
- E. No part of the surfacing system shall be applied during a rainfall, or when rainfall is imminent.
- F. Do not apply coatings to a cold surface. Surface and air temperatures must be at least 50°F (10°C) and rising.
- G. Do not apply coatings if extremely high humidity prevents drying.
- H. No coatings are to be applied if surface temperatures exceed 130°F (54° C).
- I. All materials shall be delivered to the job site in sealed containers with the manufacturer's label affixed.
- J. Color(s) of acrylic color coating system is to be selected by owner from manufacturer's product color card.
- K. If all the above conditions are met, surfacing materials shall have a Five-Year limited warranty as supplied by the manufacturer.

1.5 WARRANTY

Advanced Polymer Technology Corp. (APT) warrants, subject to limitations, exclusions, terms and conditions contained herein, that the material supplied by APT, and which is covered by this Warranty, will not fail due to defects for five (5) years. APT's maximum responsibility under this Limited Warranty shall be limited to the replacement of material in a quantity not in excess of the quantity of material furnished by APT in connection with the project. No salesman or other employee or agent of APT is authorized to bind APT by any agreement, warranty, promise, or understanding not herein expressed.

This Limited Warranty is made and given in lieu of all other warranties and conditions, expressed or



implied, statutory, or otherwise, including but not limited to any warranties or conditions of merchantability, durability and of fitness for a particular purpose. Under no circumstances shall APT be liable or otherwise obligated for indirect, incidental, or consequential damages of any nature or kind whatsoever, including damages arising in contract, tort, product liability or otherwise.

PART 2 – PRODUCTS

2.1 LAYKOLD MASTERS PICKLEBALL FLOAT SYSTEM COMPONENTS

- A. All components of Laykold Masters Pickleball Float system shall be supplied by Advanced Polymer Technology, an ISO 9001 and 14001 certified manufacturer. Masters Pickleball Float system components shall not contain ANY lead, mercury, nor any heavy metals, PCB, or formaldehyde.
- B. LM FlexFill: a highly flexible acrylic emulsion used for asphalt substrate surface preparation. Used on new asphalt substrates only.
- C. LM Adhesive: a two-component polyurethane used to adhere the prefabricated rubber mat to the substrate.
- D. Laykold Crack Filler: a rubber fortified two component polyurethane used to seal the perimeter of the prefabricated rubber mat and adhere the joints between rolls.
- E. LM 4mm Rubber Shock Pad: a 4mm Rubber Shock Pad with 5% or greater recycled tennis ball material used as a shock pad.
- F. LM Wearcoat: a resilient, two-component polyurethane coating used to seal the shock pad and protect it from the damage.
- G. LM Bond-Kote: a one-component water-based adhesion promoter between polyurethanes and acrylic coatings designed to waterproof the system.
- H. LM Filler: A flexible, pigmented base color coat emulsion for use with Laykold Masters Pickleball Float System.
- I. LM Topcoat: a flexible, pigmented, wear and weather resistant color coat emulsion for use with Laykold Masters Pickleball System.
- J. Laykold Line Prime: a clear drying acrylic emulsion line primer.
- K. Laykold Textured White Line Paint: a factory textured, wear-resistant acrylic line marking paint.

PART 3 – EXECUTION

3.1 INSPECTION

- A. Inspect concrete or asphalt substrate for dryness. Report any discrepancies to general contractor.



- B. Surface of substrate shall be cleaned by general contractor as required.
- C. Surfacing contractor to approve site and surface conditions prior to proceeding with application of any coatings.

3.2 Preparation

A. New Concrete or Existing Concrete Substrates

1. Concrete must be shot blasted or hydro blasted to a CSP3 profile.
2. The workmanship of other contractors including the sub-base shall be level and compacted. The field dry density shall be a minimum of 95%. The concrete base must have a maximum deviation of ¼" inch below a 10-foot straight edge when measured by any random path.
3. New concrete shall be cured for a minimum of 30 days before proceeding.
4. All surfaces shall be checked to ensure a level surface. The surface shall be flooded with water, any area that retains 1/8" of water in depth after 20 minutes should be marked and leveled after the Epoxy Moisture Mitigation Primer application. All cracking and construction joints should be filled with the correct sealant. This sealant should be designed for waterproofing or moisture mitigation.
5. Surface cleaning - All surfaces must be clean, dry, and free from any bond inhibiting contaminants and foreign residue. Pressure wash the surface to remove any residues.
6. The polyethylene vapor barrier application shall be applied by additional contractors. The application of the barrier shall be installed preceding any cables or steel. The vapor barrier shall be applied at a minimum of two (2) 6-mil layers. Once the installation is completed do not allow any traffic (including vehicular) onto the surface.

B. New Asphalt Substrates

1. The workmanship of other contractors including the sub-base shall be level and compacted. The field dry density shall be a minimum of 95%. The asphalt base must have a maximum deviation of ¼" below a 10-foot straight edge when measured by any random path.
2. New asphalt shall be allowed to cure for a minimum of 14 days before proceeding.
3. All surfaces shall be checked to ensure a level surface. The surface shall be flooded with water, any area that retains 1/8" of water in depth after 20 minutes should be leveled with the approved product. All cracking should be filled with the correct sealant.
4. Surface cleaning - All surfaces must be clean, dry, and free from any bond inhibiting contaminants and foreign residue. Pressure wash the surface to remove any residues.



C. Previously Coated Asphalt Substrates

All surfaces shall be checked to ensure a level surface. The surface shall be flooded with water, any area that retains 1/8" of water in depth after 20 minutes should be leveled with the approved product. All cracking should be filled with the correct sealant.

Surface cleaning - All surfaces must be clean, dry, and free from any bond inhibiting contaminants and foreign residue. Pressure wash the surface to remove any residues.

3.3 INSTALLATION

- A. LM Flexfill is only required for New Asphalt. Apply the Laykold Flexfill using a 36" wide 55 Durometer flexible rubber squeegee. Thoroughly mix the Laykold Flexfill until the material is consistent in color and texture. The application rate shall be 0.05-07 gal/yd² or 130-180 ft²/gal of undiluted Laykold, per coat. Each coat should be completely dry before applying subsequent coats.
- B. An Epoxy Moisture Mitigation Primer must be used when installing a Laykold Masters system over concrete substrates that are on grade (in ground) or where RH value exceeds 75% according to ASTM F 2170. The Epoxy Moisture Mitigation Primer should be applied to manufactures guidelines.
- C. Patching: Once the surface has been thoroughly cleaned and is free of all loose material, dirt, or dust, the court shall be flooded and allowed to drain a minimum of 20 minutes and a maximum of 1 hour. Any area that holds water (birdbaths) in a depth greater than 1/8 inch shall be outlined and patched.
 - 1. Surface Leveling: Birdbaths shall be leveled using Laykold Acrylic Deep Patch court patch binder slurry. Prime area with a 50/50 mixture of Laykold Acrylic Deep Patch and water. Primer shall be brushed into place and allowed to dry prior to patching. Patch mix shall consist of Laykold Acrylic Deep Patch, 50-mesh sand and Type 1 Portland Cement. Mix as per manufacturer directions.
 - 2. Crack Filling: Cracks shall be cleaned, primed, and filled using Laykold Acrylic Resurfacer if cracks are 1/16 inch or less. If greater than 1/16 inch, Laykold Acrylic Deep Patch court patch binder slurry should be used to fill cracks. Mix as per manufacturer's directions. Refer to Laykold Deep Patch technical data sheet for additional mixing details and application instructions for filling various sized cracks.
 - 3. All areas that are repaired/leveled/corrected using a court patch binder mixture shall be allowed to fully cure and then ground smooth and level with the substrate by stone or an acceptable mechanical method.
- D. Install Laykold Masters Pickleball Float system according to guidelines provided by Advanced Polymer Technology Corp., Harmony, PA.

3.4 PROTECTION

- A. Cure Time. No traffic or other trades shall be allowed on the surface for a period of one week following completion to allow for complete and proper cure of the finish.



- B. Other Trades. It is the responsibility of the general contractor to protect the surface from damage by other trades before acceptance by the owner or the owner’s authorized agent.
- C. Do not allow surrounding sprinkler systems to spray water on the newly applied court surface for a period of one week after completion.
- D. Do not place any benches, chairs, ball baskets, or any other type of court equipment on the newly applied court surface for a period of one week after completion.
- E. Do not allow black soled shoes, bicycles, rollerblades, etc. on the court surface. Black scuff marks cannot be removed!

3.5 MAINTENANCE

- A. Dirt Contamination
 - 1. Broom, wash or blow dirt off court on a regular basis.
 - 2. Annual pressure washing of court surface is recommended.
 - 3. Most dirt and stains can be removed with a neutral pH cleaner used in proper dilution. Pre-test cleaner on small area in corner of court.
- B. Proper maintenance procedures and housekeeping practices should be performed on a timely as needed basis.

Acrylic, all-weather tennis and athletic surfacing systems are designed and used to visually enhance asphalt and concrete substrates while providing a desired surface texture, surface pace and/or speed of play. Laykold systems and system components may be used to level surface depressions, fill substrate cracking, smooth surface roughness, and make other such adjustments to a new or existing surface/substrate. However, acrylic all-weather tennis and athletic surfacing systems are NOT capable of solving the problems and/or forces associated with cracked, deteriorating, or damaged substrates.

