

Laykold for the Riteway Crack Repair System: Installation Guide



Advanced Polymer Technology (APT) has prepared this installation guide to aid in the application of Laykold for the Riteway Crack Repair system. Any references to consumptions are approximate due to variations in site conditions and application techniques. Before starting any work, the applicator should thoroughly review this installation guide and all system component technical data sheets.

MIXING OF MATERIALS

Laykold for the Riteway Crack Repair system components are supplied in concentrated form. Each component must be mixed appropriately prior to installation. Mixing of water-based products can be performed in a low-speed mixing tank or in a clean 55-gallon drum using a ½" (minimum) heavy-duty drill (7 amps minimum) fitted with a stainless-steel mixing blade/shaft (shaft 1/2" x 36" long; blade 8 ½" x 5"). Mix all materials at a low speed (400 - 600 rpm) taking care not to introduce air into the product. Mix until material is consistent in color and texture. Mixing ratios for each product are listed below:

Laykold for Riteway Crack Repair System Component	Maximum Dilution Material to Water	Silica Sand Requirements mesh size/#'s per gallon of concentrated material
LM Bond-Kote	No Dilution	No Sand
Laykold NuSurf G2	4 parts to 1 part	60-80/7-9 #'s per gal.
Laykold NuSurf	1 part to 0.7 part	60-80 / 7-9 #'s per gal.
Laykold Colorflex	1 part to 0.6 part	80-100/4-7 #'s per gal
Laykold Colorflex – Finish Mix	1 part to 1 part	Do not add sand

SURFACE PREPARATION

Prior to application, the existing surface must be thoroughly cleaned, sound, dry, and free of oils and other bond inhibiting contaminants. Spalls, delamination, potholes, scaling, pop outs, and other defects in the substrate must be addressed and all projections must be leveled (sanded or scraped) prior to the commencement of the surfacing applications.

Surface Leveling: Birdbaths shall be leveled using a Laykold Acrylic Deep Patch court patch slurry. Prime area to be patched 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.



Note: Laykold Poly Primer (Patch Mix) is an acceptable substitute for leveling material.

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 slurry shall be used to fill cracks. Refer to the Laykold Deep Patch technical data sheet for additional mixing details and application instructions for filling various sized cracks. Filled cracks must be scraped or buffed flush with court and cleaned, broomed, and blown.

Note: QualiCaulk and/or Laykold Crack Filler are acceptable substitutes for crack filling.

RITEWAY CRACK REPAIR SYSTEM

Area to be repaired must be DRY and at a minimum of 60°F and a maximum of 100°F. Apply Riteway Crack Repair System, centering the first layer of Riteway Seam tape over the filled crack. Apply LM Bond-Kote over the Seam Tape using a heavy nap roller. Apply second layer, 20" stress mat, centered over the Seam tape and saturate with LM Bond-Kote. Apply third layer, binding edge. Binding Edge should be centered over the stress mat edge. Allow LM Bond-Kote to fully dry, material will go from opaque milky white to hazy translucent clear. Apply two coats of LM Bond-Kote lengthwise over the Seam tape and allow to dry.

MEMBRANE COAT (1 coat)

Apply one (1) coat of Laykold NuSurf G2 using a 24", 30" or 36" wide 70 Durometer flexible rubber squeegee. The membrane coat shall be pulled lengthwise over the crack repair. Batch mix shall consist of 55 gallons (200 kg) of Laykold NuSurf G2, 12.5 gallons (48 kg) of potable water, and 400 to 500 pounds (180-227 kg) of clean, bagged silica sand (60 to 80 mesh). The application rate shall be 0.05-0.07 gal/yd² (0.29-0.40 kg/m² - 129-180 ft²/gal) of undiluted Laykold NuSurf G2.

FILLER COAT (1-2 coat2)

Apply one to two (1-2) coats of Laykold NuSurf using a 24", 30" or 36" wide 70 Durometer flexible rubber squeegee. Batch mix shall consist of 55 gallons (220 kg) of Laykold NuSurf G2, 25 - 35 gallons (96 - 134 kg) of potable water, and 400 to 500 pounds (180-227 kg) of clean, bagged silica sand (60 to 80 mesh). The application rate shall be 0.05-0.07 gal/yd² (0.29-0.40 kg/m² - 129-180 ft²/gal) of undiluted Laykold NuSurf.

TEXTURED COATS (2-3 coats)

Laykold MS2 – ITF Classification 2

Apply two coats of Laykold ColorFlex textured batch mixture using a 24", 30" or 36" 50 Durometer flexible rubber squeegee. Batch mix shall consist of 55 gallons (260 kg) of ColorFlex, 38 to 41 gallons (144 - 155 kg) of potable water and 225 to 300 pounds (102 - 136 kg) of clean, bagged silica sand (60 to 80 mesh). The application rate shall be 0.05-0.07 gal/yd² (0.29-0.40 kg/m² - 129-180 ft²/gal) of undiluted ColorFlex per coat. Each coat should be completely dry before applying subsequent coats.



Laykold M3 – ITF Classification 3

Apply two coats of Laykold ColorFlex textured batch mixture using a 24", 30" or 36" 50 Durometer flexible rubber squeegee. Batch mix shall consist of 55 gallons (260 kg) of ColorFlex, 38 to 41 gallons (144 - 155 kg) of potable water and 225 to 300 pounds (102 - 136 kg) of clean, bagged silica sand (70 to 100 mesh). The application rate shall be 0.04-0.05 gal/yd² (0.23-0.29 kg/m² – 160-200 ft²/gal) of undiluted ColorFlex per coat. Each coat should be completely dry before applying subsequent coats.

Laykold MF4 – ITF Classification 4

Apply two coats of Laykold ColorFlex textured batch mixture using a 24", 30" or 36" 50 Durometer flexible rubber squeegee. Batch mix shall consist of 55 gallons (260 kg) of ColorFlex, 38 to 41 gallons (144 - 155 kg) of potable water and 225 to 300 pounds (102 - 136 kg) of clean, bagged silica sand (70 to 100 mesh). The application rate shall be 0.04-0.05 gal/yd² (0.23-0.29 kg/m² – 160-200 ft²/gal) of undiluted ColorFlex per coat.

Apply one coat of Laykold ColorFlex finish batch mixture using a 24", 30" or 36" 50 Durometer flexible rubber squeegee. Batch mix shall consist of 55 gallons (260 kg) of ColorFlex and 55 gallons (210 kg) of potable water. The application rate shall be 0.03-0.04 gal/yd² (0.17-0.23 kg/m² - 225-300 ft²/gal) of undiluted ColorFlex per coat.

Each coat should be completely dry before applying subsequent coats. Allow topcoat to cure a minimum of 24 hours before applying game lines.

GAME LINES (1-2 coats as needed)

All lines are to be marked using masking tape according to U.S.T.A. and A.S.B.A. specifications. Wait a minimum of 24 hours after final Color Coat before applying any line primer or line paint. Prime masked lines with Laykold Line Prime and allow to dry until primer becomes clear. Apply one to two coats as needed of Laykold Textured White Line

Paint using a paint brush or roller. Remove masking tape immediately after lines are dry. Allow lines to dry a minimum of 24 hours before allowing play on court.

COVERAGES

Actual coverage rates are dependent upon a variety of factors relative to the field application. The installer must assess the conditions prior to ordering material. Allowances

must be made for waste in mixing, pouring, and field conditions.

LIMITATIONS

- Asphalt substrates shall be made level or flat and routed and cleaned of loose materials and or debris prior to application of seaming system.
- Do not apply over damp or wet substrates.



- Do not apply coatings if extremely high humidity prevents drying.
- Do not apply to surfaces during the out-gassing of vapor.
- Minimum application and curing temperature 50°F and rising (10°C). A minimum temperature of 50°F must be maintained during the entire installation process to include 24-hours before and after the installation.
- Maximum substrate temperature 130°F (54°C).
- Substrate temperature must be a minimum of 4° above the dew point.
- Do not apply during inclement weather or when rain is anticipated within 24-hours before/after applications.
- Water used in all mixtures shall be fresh and potable.
- All materials shall be delivered to the job site in sealed containers with the manufacturer's label affixed.

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.