

McKinnon Materials Epoxy Stone Bond

Epoxy-River Rock Instructions

DESCRIPTION:

Epoxy Stone Bond has been designed as the ultimate in adhesive for stone. It may be applied over any sound surface, such as concrete, plywood, or cement asbestos board. This is supplied as a two-component epoxy compound, with excellent resistance to ultra-violet light, as well as the unique ability to bond to most clean surfaces.

USES:

For interior and exterior surfacing, such as walkways, patios, pool areas, and driveways. Preferred aggregate is river-gravel, which can be used in sizes from 1/16 inch on up. Aggregate must be clean, dry and free from dust. The color is slightly off clear on the light amber side, so the use of this product is suggested only with stone other than white, such as natural earth tone river gravel and colors. When installing white or light colored stone, use **Super UV Epoxy** to help prevent yellowing of the stone bond.

SHELF LIFE:

12 Months (Unmixed). **Color:** Clear
Flash Point: **Cure** – will burn at 200°F
Resin – no response

SURFACE PREPARATIONS:

All surfaces must be dry, clean, and free from grease, oil, or foreign matter.

MIXING INSTRUCTIONS:

Stone Bond Epoxy is a three to one ratio. Important: DO NOT VARY FROM THIS MIX RATIO.

1. Place **one** quart of cure in container, add **three** quarts of resin. (USE SEPARATE MEASURING VESSELS FOR EACH COMPONENT.)
2. Mix for two minutes with a flat stirrer, scraping the sides to ensure proper mix. Let stand while loading mixer.
3. Pour into mixer, 150-180 pounds of stone (depending on the size of stone).
4. Run mixer approximately three minutes until stone is thoroughly saturated with Stone Bond Epoxy.

APPLICATION INSTRUCTIONS:

Refer to batch mix sheet for correct ratio of aggregate to epoxy.

1. Remove the mix to the wheelbarrow and dump into place.
2. Immediately spread with rake to the correct level.
3. Trowel smooth and tight. **IMPORTANT:** loosely troweled stone will cause a weak system. Use Trowel Slick as a trowel lube and **AVOID** excessive amounts on trowels or deck.

CLEANING:

Tools may be cleaned with soap and water immediately after application. **NOTE:** If tools are not cleaned within one half hour after being used, it will be virtually impossible to remove the Stone Bond Epoxy from your tools.

SAFETY PRECAUTIONS:

All epoxies, including Stone Bond, have the potential of causing dermatitis on people who are sensitive to epoxy. Users are cautioned to exercise due care, taking care not to get on skin, clothes, or in eyes. If splashed in the eyes, flush repeatedly with warm water for at least fifteen (15) minutes and call a physician immediately.

PLEASE NOTE:

Recommended thickness for the river rock epoxy surface is: ½ inch thick for pool decks, patios, and walkways. For driveways, the river rock should be ¾ inch thick.

IMPORTANT:

If the temperature is below 60°F, **COLD WEATHER RESIN MUST BE USED.**

BASIC INSTALLATION

- I. Tools
 - A. Cement Mixer (3 cu.ft. capacity)
 - B. Wheelbarrow (s)
 - C. Iron-tooth rake to spread rock to approximate thickness
 - D. Trowel (for finishing of product)
 - E. Propane Torch (to remove any moisture)
 - F. Hammers
 - G. Chipping Gun (plane down concrete at thresholds)
 - H. Tapcon Drill and Tool

- II. Forming Materials
 - A. Forming Stakes
 - B. 1" x ___ (wood forms) for over pours and steps.
 - C. Cantilever forms (pool edges).
 - D. Form Release (to keep product from sticking to forms)
 - E. Tapcon Screws.

- III. PREPARATION FOR DECK
 - A. Must be clean and dry
 - B. Follow existing expansion joints accordingly
 - C. Remove spoiled or flaking concrete
 - D. Build up or channel low lying areas for necessary drainage
 - E. Asphalt or wood surfaces must have coat of epoxy applied prior to installation of river rock

- IV. FORMING
 - A. Wrap product around edges of deck that can be seen.
 - B. Apply light coat of epoxy to vertical edge of substrate.

FORMING PROCEDURES:

Place forming stakes against edge of vertical substrate; this will space out from existing edge allowing product to fill in void between existing edge and form. Place pre-waxed form against stakes and install forming stakes to hold form in place.

FOR STEPS:

Follow above procedure except fasten form with tapcon or concrete nails. While installing river rock, remove spacing stakes as the river rock fills voids. Trowel top to smooth finish and level edge.

FORMING OF CANTILEVER EDGE:

Place a row of duct tape on pool tile. Top edge of tape should follow top edge of pool tile. Apply double face tape to foam then extender to the opposite side of the tape. Apply form adhesive to foam backing and glue backing to extender. Install concrete nails in concrete approximately one foot from edge of pool and space nails about every two feet around pool. If pool has straight edges use strips of 1x2 wood. If pool has curved edges, use strips of 2" masonite. Drill holes through wood backing. Place above mentioned backing strips against foam backing, pull tight and tie wire to nail.

After river rock is installed and hard, remove forms and cut tie wires even with rock edges. River rock dace needs to be ground slightly to smooth edge. After grinding and dust has been removed, apply light coat of epoxy to surface that has been ground.

V. MIXING OF MATERIAL

- A. Epoxy has a set mix ratio (do not vary). Mix three (3) equal parts resin to one (1) equal part of cure. Mix vigorously for at least two (2) minutes.
- B. Place correct poundage of desired pebble in cement mixer and add mixed epoxy.
- C. Let epoxy and stone mix until all stones have been covered with epoxy.

VI. FINISHING THE PRODUCT

- A. Place river rock at place of installation
- B. Spread evenly with rake
- C. Trowel to a smooth finish. In order to obtain a smooth finish, trowel must be occasionally cleaned with a proper solvent (Xylene, Trowel Slick, etc)

FINISHED PRODUCT SHOULD NOT BE WALKED ON UNTIL THE NEXT DAY!!!

CAUTION: Product should not be installed when temperature will not rise above 60°F. On such days, cold weather resin should be used.