



Surface Repair Material for Brick and Stone Treads and High-Density Brick, Stone, and Concrete Substrates FOR PROFESSIONAL MASONRY RESTORATION AND SUSTAINABLE BUILDING SYSTEMS

ENVIRONMENTAL REQUIREMENTS

Handle and store pails to protect from damage and moisture. Take precautionary measures to assure that excessive temperature changes do not occur. Do not apply unless a minimum ambient temperature of 45°F and a maximum of 85°F can be maintained for at least 48 hours prior to application and until the work has cured for 72 hours. During hot weather, protect from uneven and excessive evaporation. As needed, place a humidifier in the room during curing. Cover exterior work by suspending burlap or jute a few inches away to prevent contact and avoid staining. Wet the work and coverings several times a day for a 3-day curing period to encourage a slow cure. Tarps may be hung outside of scaffolding to protect from hot sun, driving rain, and drying winds.

GENERAL APPLICATION

The application surface must be clean and free from dust, oils, and flaking or unstable coatings. To control suction, mist the substrate with clean water and apply Ecologic™ LithoStep before dampening is fully dry. Never install on surfaces that are over saturated or have standing water. Ecologic™ LithoStep can also be applied to non-rusting lath fastened with non-rusting anchors. Using a trowel, apply enough pressure to thoroughly bond Ecologic™ LithoStep to the substrate while packing and slightly overfilling the repair. Ecologic™ LithoStep may be applied in layers of up to 2" thick in one pass (or

successive layers totaling 2" thick) in any single working day. Always dampen the application area between lifts. A minimum thickness of 3/16" is needed to dress or cut back the repair to a featheredge when set. After a few hours, as needed, re-compact by pressing the repair to restrain any slight shrinkage. Projection or molded work that extends more than 4" in depth requires a stainless steel armature and anchors and the use of forms. Within approximately 2 hours, rub down the repair to its final shape and profile using abrasive pads, knives, or straight-edges. Cured Ecologic™ LithoStep may also be worked, tooled, dressed, and finished with traditional masonry tools, sculpting tools, sanding blocks, tungsten carbide abrasive sheet, and scratch floats. This detailing can be accomplished weeks after the final set to achieve the desired reproduction. For very finely jointed work or ashlar masonry with considerable damage to the arises, flush finish the Ecologic™ LithoStep repair and strike false joints. Building details repaired with Ecologic™ LithoStep will accept Ecologic™ LimeWash, Ecologic™ Potassium Silicate Paint, and Ecologic™ Colorwash Stain.

MIXING

Using a drill mixer with a paddle attachment, combine 1 gallon of clean, potable water with a 55 pound bag of Ecologic™ LithoStep. Mix well for 3 to 5 minutes while slowly adding sufficient water until desired workability is achieved. Small batches may be mixed manually with a

whisk. Add approximately 8 ounces of water to 3 dry pounds of Ecologic™ LithoStep. Keep water ratios uniform between batches to ensure consistency in material performance and appearance.

WORKING TIME

Simulation of stone and brick features, rough finishes, and false joints can be made up to 2 hours after initial application. Shaping and further details can be carried out weeks after application using stone carving tools or sanded with PermaGrit® sanding blocks.

AVERAGE COVERAGE (55 POUNDS)

Brick or Stone Repair: 32-square-feet at 1/4" thick.
Brick or Stone Repair: 16-square-feet at 1/2" thick.
Brick or Stone Repair: 11-square-feet at 3/4" thick.
Brick or Stone Repair: 8-square-feet at 1" thick.
Brick or Stone Repair: 4-square-feet at 2" thick.

CURE TIME

The initial cure is 48 hours. The full cure takes 28 days.

SUITABLE SUBSTRATES

Use Ecologic™ LithoStep for surface repairs for brick and stone treads and horizontal high-density brick, stone, and concrete surfaces.

For horizontal surfaces that abut vertical faces of cast stone or low foot traffic areas with high exposure (such

as cast stone copings), apply our associated product Ecologic™ LithoCast as the final layer over Ecologic™ LithoStep. Also use Ecologic™ LithoCast to cast exterior architectural elements for stone or concrete.

SHELF LIFE

12 to 24 months if kept sealed and stored in a cool dry place and away from moisture.

SAFETY

May cause eye and skin burns. In case of contact with skin or eyes, flush with water for 15 minutes and contact a physician. Inhalation of the dust may cause coughing, sneezing, irritation, and inflammation of the upper respiratory tract. Wear adequate protective clothing, including goggles and an appropriate dust mask, to avoid prolonged contact. Harmful if swallowed.

DISPOSAL

Sweep and place bulk material in containers and properly remove for disposal. The final, cured product is not hazardous. Dispose of in a landfill following all local, state, and federal regulations.

FOR ADDITIONAL INFORMATION

3145 State Road, Telford, PA 18969 • 215-536-6706
www.limeworks.us • admin@limeworks.us

WARNING Exposure to very high air concentrations of free silica can cause an acute form of silicosis that may occur within one year after exposure begins. This condition may be fatal.

limeworks.us/wp-content/uploads/2019/11/st-astier-lithomex-safety-data-sheet.pdf

Go to www.likeathis.com to see instructional videos filled with tips, techniques, and demonstrations showing how to use our products.



Place Sticker Here:

- Product Code
- Lot Number
- Bulk Density Weight