

# LastiSeal®

CONCRETE STAIN & PENETRATING SEALER | INSTRUCTIONS

**LastiSeal® Concrete Stain & Sealer is a ready-to-use, water-based, deep-penetrating sealer with added color pigment. It waterproofs, strengthens, binds, and beautifies concrete in a one-step application. LastiSeal® is eco-friendly, non-flammable, nontoxic, and safe to apply both indoors or outdoors, on vertical or horizontal surfaces.**

**Stain Finish** – The stain is semi-translucent. Similar to the effect of an acid stain, the color left behind is characterized as a mottled appearance (varying shades and intensities of color, dark and light). Resulting color and intensity can vary depending on the porosity of the substrate, pH, application method, and color of the surface.

**Penetration** – Proper stain and sealer penetration is critical to achieving optimal results. To withstand weather, foot and vehicular traffic, the stain must fully absorb below the surface of the substrate. Stains are not paints, if they cure on the surface, they are susceptible to washing away, peeling, or chipping off.

**Testing** - We strongly recommend purchasing a small 8-ounce sized bottle of LastiSeal® Concrete Stain & Sealer before applying to a large area. Samples will confirm that you like the color, mottled finish, and that the stain is properly penetrating the surface (*like paint, a small sample area may not be completely representative of a larger scale application*).

## SURFACE PREPARATION

**Cleaning** – Substrate must be completely clean, bare, and thoroughly dry. Remove paints, previous sealers, adhesives, curing or form release compounds, stains, oils, grease, oil-based cleaners, efflorescence, and other contaminants that might interfere with the penetration of the sealer and stain.

**Porosity** – Never assume the surface is porous enough. Concrete surfaces vary greatly in composition and porosity. A porous surface should be able to readily absorb water droplets within 1-2 minutes. Machine troweled, burnished, or polished concrete (typically found in walk-out basements, garage floors, slab-on-grade construction, or warehouses) have “tight” surface caps that would repel water. Penetrating sealers and water-based stains have trouble percolating through these surfaces and into the concrete. Although not always required, it is recommended that the surface be etched or mechanically scarified before applying a stain (alleviates surface tension). See our PowerEtch® Concrete Etcher: [www.radonseal.com/cleaners/poweretch.htm](http://www.radonseal.com/cleaners/poweretch.htm)

**pH** – The pH of cement based masonry must measure between 6-8. New concrete (up to two years of age) is highly alkaline and can break down a stain or alter the appearance. New concrete requires pH adjustment. If acid is used for pH adjustment, cleaning, or etching, it must be neutralized afterwards with a mixture of baking soda and water (mop or brushed over). Surfaces should then be rinsed thoroughly with clean water and allowed to dry out completely. Surface pH should be re-measured prior to applying LastiSeal Stain and Sealer.

**Drying** – The substrate must be dry before applying LastiSeal®. We recommend cleaning at least one week prior to applying LastiSeal. This will allow the concrete time to thoroughly dry out especially after using pressure-washers or large amounts of water. If time is of the essence, allow 2-3 days after a rain or four days after pressure washing – fans, dehumidifiers, and heaters may be used to expedite drying.

**Protection** - Protect plants and non-masonry surfaces from splash, residue, and wind drift. Divert foot and auto traffic.

## TEMPERATURE

- Air and surface temperatures should be between 50 – 100 °F during application. Surface temperatures should not drop below 40 °F for 24 hours after application. Air and surface temperatures of 70 – 90 °F are optimal.
- Avoid applying to hot surfaces in direct sunlight (the heat of the day), strong wind, or excessive humidity.
- Avoid rain for 24 hours after application.

## TOOLS

Recommended – Apply using a low-pressure hand-pump (“garden”) or airless sprayer regulated below 30 psi equipped with fan-tip nozzle. When a sprayer is not practical, a paint roller may be used but not advised.

- Clean 5-gallon container
- Paint roller, extension pole (for back rolling potential puddles)
- Drill/paint mixer.

## MIXING

- Shake, flip, agitate, and mix container prior to use. Stain pigments tend to settle to the bottom of the container making mixing important!
- Pour the majority of LastiSeal® into a clean container, mix and scrape any settled pigment off the bottom of the container.

- Pour the reserved liquid back into the container and continue to mix. Pouring the liquid back and forth from one container to another will ensure thorough mixing especially if LastiSeal® has been stored for a period of time.

## **APPLICATION**

One application is recommended and normally sufficient for poured concrete. A second application can be applied on more porous substrate to achieve a more intense color, particularly with the lighter stains. Always test a second application on an inconspicuous spot to ensure the stain and sealer are still absorbing well enough.

- Fill pump sprayer.

- Apply product liberally, forming a continuous, glistening film on the surface. Just on the verge of puddling. If needed, add a touch more sealer to faster-absorbing areas. Allow the surface to absorb as much product as possible without puddling. **DO NOT OVER APPLY.**

- Broom or roll out puddles or excess rundown until the sealer penetrates. Keep back rolling to a minimum. Rollers can leave roller marks.

- If a second application is desired the product should be applied much lighter, 45-60 minutes after the first application (about the time it will be dry enough to walk on with thick socks or shoe covers). Alternatively, for more porous substrate, a second application can be made 24+ hours later.

- If you choose to use a roller or brush always maintain a “wet edge” so overlap marks will not be apparent. If you must stop during application, end at a control joint, saw cut, crack, or some other architectural feature. If none is available use blue painters tape to create a clean edge.

## **DRYING & CURING**

Treated surfaces should appear dry within 2-3 hours. Longer drying times are typical in cooler temperatures or in high humidity. Ventilating the area will accelerate drying and curing.

Treated surfaces are ready for light foot traffic in 5+ hours. Avoid vehicle traffic for three days after application. Heavy vehicle traffic should be avoided for five days.

LastiSeal® Concrete Stain & Sealer may be top-coated to enhance the stain and protect the surface from scratching or chipping. Water-based, topical, clear acrylic or urethane-based sealants are recommended – solvent based sealers may negatively affect stain. Topical sealer should be applied after full cure is achieved (5-7 days later).

## **REAPPLICATION**

The surface will continue to shed water and protect the substrate for years, whether or not it beads. The sealer will adhere well to itself. LastiSeal® can be re-applied to refresh a color, increase beading effect, or to restore water-shedding. When reapplying, spray a light amount of sealer to the surface.

## **CLEANUP**

Wipe off drips and over spray residue while still wet. Rinse sprayer and clean application equipment after usage with warm soapy water. Removing dried sealer may require mechanical abrasion.

## **DISPOSAL**

Unused material is regulated as solid waste. For disposal of empty container or unused product, contact your household refuse collection services.

## **STORAGE**

Store in a cool, dry place out of direct sunlight at temperatures between 40-90 °F. Avoid freezing!

## **COMMON USES**

Commercial and residential. Slabs, walls, poured concrete, concrete blocks, porous pavers, shotcrete, patios, pool decks, garage floors, mortar joints, retaining walls, columns, facades, and statuettes.

## **LIMITATIONS**

Fish ponds, pools, reinforced concrete, stamped concrete, precast concrete, flagstone, fieldstone, hydraulic cement, resurfacing products, overlays, and patching compounds.

**Read Product Safety data sheet prior to using and take appropriate safety precautions.**