

# LIMESTRONG BUILD™

HIGH PERFORMANCE POZZOLAN + LIME

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## Limestrong Build Binder™

**DESCRIPTION.** Limestrong Build (LSB) Binder is a Pozzolanic Hydrated Lime (PHL) binder product and **contains no sand/aggregate**. Combine LSB Binder with locally sourced sand<sup>[1]</sup> (providing significant saving on product shipping costs) at the ratios detailed right (and in the mix guide instructions). Limestrong Build was developed for new construction (especially on breathable, non-typical building materials like adobe, strawbale, hempcrete) as well as restoration and renovation projects.

**FEATURES.** All natural product made from high-purity lime and high-performance white pumice pozzolan. When mixed as instructed for the recommended minimum amount of time, the lime plaster spreads on quickly and smoothly. Limestrong lime plasters contain no Portland cement, so have a liberal working window. Mixed mud can be stored covered (air-tight) and retempered for reuse for 3-to-5 days.

**PURPOSE.** Limestrong Build Binder is designed to be mixed with appropriate plaster sand to provide the **scratch**, **leveling** (brown) and **finish** coats (if fine plaster sand<sup>[2,3]</sup> is used for finish coat) in a typical 3-coat plaster render.

**COLOR.** Natural white. Mixed, natural color will be influenced by color of the sand/aggregate used. Limestrong Build plasters are designed to be used with the Limestrong Color System, but can be colored using any liquid or powdered pigments. Color, if used, is mixed into the finish coat or applied as a limewash to the cured finish coat. Always make color sample boards to ensure consistency.

**COVERAGE.** Coverage will vary significantly based on sand ratio and coat thickness. Please use the coverage calculators at [limestrongbuild.com/calculators.html](http://limestrongbuild.com/calculators.html) to determine per-bag coverage.

**INSTALLATION/APPLICATION.** Limestrong Build plaster products are backed by an extensive online knowledge base containing detailed instructions on the preparation, mixing, application, and curing processes. For an overview of the entire use process, see the LSB publication: **Using Limestrong Build Binder**. Download at [limestrong-build.com/instruction-use-guides.html](http://limestrong-build.com/instruction-use-guides.html). Please read and understand the published instructions thoroughly before use. We also strongly recommend the use of practice panels for those who are new to lime plaster.

- 1 • See LSB Publication: SOURCING SAND for instructions on selecting the right plaster sand.
- 2 • See LSB Publication: MIXING LIME PLASTER for instructions on screening sand stockpile to obtain a fine finish sand.
- 3 • Alternatively, the use of **Limestrong Build Finish**, an all-in-one product, avoids having to buy finer sand or screen-off the course sand particles from the stockpile.



Strawbale, stone, and timber home rendered inside and out with Limestrong Build.

## Volume Ratios

### RICH SCRATCH COAT [1 : 1]

#### 1-part LSB Binder to 1-part Plaster Sand

EXAMPLE: 2 five-gallon buckets LSB Binder (one 50 lb. bag) ; 2 five-gallon buckets of sand. Start with 3 gallons of water; add more water as necessary to bring up to proper working consistency.

### STANDARD SCRATCH COAT [1 : 1.5]

#### 1-part LSB Binder to 1.5 (up to 2) parts Plaster Sand

EXAMPLE: 2 five-gallon buckets LSB Binder (one 50 lb. bag) ; 3 or 4 five-gallon buckets of sand. Start with 4 gallons of water; add more as necessary to bring up to proper working consistency.

### LEVELING (BROWN) COAT [1 : 2]

#### 1-part LSB Binder to 2 (up to 2.5) parts Plaster Sand

EXAMPLE: 2 five-gallon buckets LSB Binder (one 50 lb. bag) ; 4 or 5 five-gallon buckets of sand. Start with 5 gallons of water; add more water as necessary to bring up to proper working consistency.

### FINISH COAT [1 : 0.5]

#### 1-part LSB Binder to 0.5 (up to 1) part Fine Finish Sand<sup>[2,3]</sup>

### WEIGHT-TO-VOLUME BASICS

- A single bag of LSB Binder, by volume, is approximately ten (10) gallons and weighs 50 lbs.
- A five-gallon (5G) bucket of plaster sand (not quite full) weighs 60–70 lbs. (depending on moisture content of sand).
- A five-gallon bucket (not quite full) of water weighs around 40 lbs.

**SUBSTRATES.** Limestone Build (LSB) plasters can be used over a variety of substrates. LSB can be direct-applied to various earthen materials, hempcrete, masonry, strawbale, wood lath, and concrete. When prepared with metal lath, LSB can be used over EPS foam materials. If prepped with metal lath and a water-resistant barrier (WRB), LSB can be used over plywood, OSB and fiberglass panels. Substrate-specific preparation and application guides are available at [limestonebuild.com](https://limestonebuild.com).

**HEALTH AND SAFETY.** Read and follow the Safety Data Sheet (SDS) and the mixing and application guidelines prior to use. Use only as directed. SDS and the Safe Use Precautions guide can be downloaded from [limestonebuild.com](https://limestonebuild.com).

Limestone Build plasters contain hydrated (slaked) lime, which (because of a high pH) is somewhat caustic. Breathing the powder dust can also cause respiratory irritation. BE SMART. Protect yourself. In all situations, if irritation develops, seek medical attention. Please read our Safe Use Precautions and Treatments publication for information on protecting and treating skin, eyes, and breathing function.

**DISCLAIMER.** Limestone Build shall not be liable for incidental or consequential damages sustained directly or indirectly, and accept no liability for loss caused by application of these products not in accordance with our current published instructions (including proper protection-masking of surfaces not receiving plaster) or if used for anything other than the intended use. Our liability is expressly limited to the replacement of defective Limestone Build product.