HERITAGE LIME PUTTY MORTAR
TYPE L
Product Data Sheet

Description and Use
Heritage Lime Putty Mortar – Type L is an engineered factory-blended pointing (tuckpointing) and bedding mortar, designed to match the performance characteristics of traditional lime-sand mixes, that facilitates safe and durable repairs of bedding and pointing mortar for solid load-bearing masonry buildings originally constructed without portland cement.

The single component wet formulation is pre-blended with water and ready to use for pointing, no additions are needed. Formulated only from aged high-calcium slaked lime putty, engineered aggregate blends, and mineral pigments (upon request), Heritage Lime Putty Mortar – Type L contains no cements, pozollans, polymers, or admixes of any kind. Lime putty mortar is the softest, most permeable and flexible mortar formulation, providing outstanding protection of masonry units from damage caused by building movement, thermal expansion/contraction, freeze-thaw cycles and salt migration (efflorescence).

Heritage Lime Putty Mortar – Type L should be used when mortar analysis and/or date of construction indicates no hydraulic cement was used. Type L is always recommended for extremely soft, friable masonry units. Application conditions of persistently damp masonry or extreme exposure require further consideration, contact USHG for technical advice. Characteristics of aged high calcium lime putty slaked from quicklime include high purity, high water retention, high plasticity and small particle size. Slaked lime putty can be re-worked indefinitely before drying due to its non-hydraulic carbonation cure. High calcium slaked lime putty is capable of drawing the damaging soluble salts that cause efflorescence from salt-saturated masonry.

Repairs to solid load-bearing masonry walls should only be attempted using appropriate materials, tools and techniques and only by educated/trained installers. Many homeowners can successfully execute pointing and small repairs. Structural repairs condition should be evaluated by professionals. Installation guides and training/certification, offered by US Heritage Group, are strongly recommended for all installers.

Features and Benefits
- Authentic product formulation ensures compatibility with historic masonry units and mortar.
- Standard aggregate blends and color selection facilitates quick, convenient installation.
- Custom-matched aggregate profiles and colors produce unbelievable visual accuracy.
- USHG provides unmatched product and project support, for one pail or hundreds, to ensure excellent results for every installation.

Sales, Product and Project Support
US Heritage Group supports, sells and ships all products directly to ensure we consistently deliver the highest quality results possible. Contact USHG for a variety of support services:
- Specifier education
- Project-specific technical advice
- Specification guides and support
- Custom color and aggregate matching
- Installation guides and training

Product Standards (Conformance)

| ASTM C5    | Quicklime for Structural Purposes |
| ASTM C144  | Aggregate for Masonry Mortar     |
| ASTM C1489 | Lime Putty for Structural Purposes |
| ASTM C1713 | Mortars for the Repair of Historic Masonry |
| ASTM E2260 | Guide for Repointing Historic Masonry |

Packaging and Coverage

| Packaging and Coverage                           | 3.5-gallon plastic pail (46lbs. material weight) | 0.33 cubic feet of material |

See USHG Installer Guide to Products and Services for unit coverage and cost estimations

Limited Warranty
U.S. Heritage Group, Inc. warrants this product to be of merchantable quality when used or applied in accordance with the manufacturer's instructions. This product is not warranted as suitable for any purpose or use other than the general purpose for which it is intended. Liability under this warranty is LIMITED to the replacement of the product (as purchased) found to be defective, or at the shipping companies’ option, to refund the purchase price. In the event of a claim under this warranty, notice must be given in writing to U.S. Heritage Group, Inc., 3516 North Kostner Ave., Chicago, IL 60641. THIS LIMITED WARRANTY IS ISSUED AND ACCEPTED IN LIEU OF ALL OTHER EXPRESSED WARRANTIES AND EXPRESSLY EXCLUDES LIABILITY FOR CONSEQUENTIAL DAMAGES.

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**Surface Preparation**

Successful installation relies on proper surface preparation that involves careful evaluation, cleaning of masonry and mortar removal. Do not attempt to point walls with higher than 20% WME. Never install any mortar as a surface/skim coat. For additional surface preparation details see [Heritage Lime Mortar Installation Guide](mailto:info@usheritage.com) then contact USHG with project-specific issues.  
1. Clean masonry units as needed to remove soiling, efflorescence, coatings, etc.  
2. Remove and repair or replace any unsound masonry units and bedding mortar.  
3. Square-cut joints to min depth twice joint width.  
4. Clean surfaces to remove all dust and debris.  
5. Dampen masonry unit joints to surface-saturated dry condition  
6. Protect installation area from rain, sun, high winds, extreme hot and cold temperatures before, during and after pointing.

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**Mixing Instructions**

Lime putty mortar ships pre-blended and pre-mixed but can stiffen up during storage. Mortar should be mixed if necessary just prior to use, by hand using a mortar hoe, or shovel. Mechanical mixing can be accomplished by paddle drill or vertical shaft mixer. Standard paddle (horizontal shaft) mixers are not recommended for drier pointing mix.  
1. Mix material 5 minutes by hand and drill or 3 minutes in vertical shaft mixer  
2. Evaluate Mix Consistency and add water to adjust. Only add water if necessary after mixing in measured increments. Weeping or flowing mortar is too wet.  
   a. **For bedding/laying only**: add enough water to achieve spreadable consistency.  
   b. **For pointing**: add enough water, if needed for mortar to stick to hawk and pointer.

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**Application**

Mortar should be installed in layers or "lifts" where the joints are deeper than one and one quarter inch (1 ¼”). Do not attempt to remove any freshly installed wet mortar.  
1. When installing mortar in lifts divide overall depth evenly for each lift.  
2. Compact each layer thoroughly and allow it to become thumbprint hard before applying the next layer.  
3. Scrape film from top of each mortar lift when thumbprint hard prior to installing additional lifts.  
4. Overfill final lift 1/8” (min) past final finish depth.

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**Cleaning**

This section applies only to removal of installed lime mortar residue. Masonry should be cleaned before repointing. Do not use metal scrapers or brushes. Do not use acidic or alkaline cleaners.

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1. **Immediately after installation of mortar during thumbprint hard and surface dry condition**: thoroughly clean the exposed masonry surfaces of excess mortar. Use dry wood scrapers, stiff-nylon or fiber brushes. Do not use water to clean uncurled mortar!  
2. **After initial curing conditions and period**: Allow the mortar to time harden and test to check that cleaning can be accomplished without surface erosion or lime-run. Dampen then use wood scrapers, stiff-nylon or fiber brushes.

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**Finishing**

For best results mortar joints should be finished immediately after installation as soon as initial “thumbprint hard” condition is reached.  
1. Dampen joints prior to tooling.  
2. Tool damp firm joints by scraping top of mortar from the joints using pointer end, wood handle or other stiff tool into desired profile, matching the original or surrounding joints.  
3. Hit tooled joints with chum brush to consolidate mortar, expose aggregate and achieve natural weathered appearance.  
4. Immediately dampen tooled joints to support curing process.

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**Curing**

Lime mortar cures slowly by carbonation initiated by cycling wet and dry conditions. Uninterrupted execution of the curing process, immediately after installation, is essential to achieve proper mortar performance. Protect mortar from driving rain, sun, high winds, temperature above 90 or below 40 degrees during initial curing cycles. Protect lime putty mortar from freezing for 40 days after installation.  
1. Dampen fresh mortar using pump sprayer or garden hose on mist setting.  
2. Allow the mortar to dry until surface color lightens.  
3. Repeat the misting procedure until the wall has gone through 9 wetting and drying cycles, typically over the first 3 days.

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**Storage and Shelf life**

Save any unused material and return it to the original shipping bucket. Pour one inch of water on the top of the material and cover with plastic sheet or burlap and reseal the bucket. Protect from freezing, extreme heat and direct sunlight. This material can be kept indefinitely if damp condition is maintained. Inspect and remix every 3 months adding water as needed. Dispose of containers with any material that has dried.