



pro mix portland lime mortar type s

1. Product Name

ASH GROVE PRO MIX® Portland Lime Mortar Type S

2. Manufacturer

ASH GROVE PACKAGING GROUP
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3. Product Description

ASH GROVE PRO MIX® Portland Lime Mortar Type S is ideal for contractor use in laying brick, block and stone or repairing masonry walls. ASH GROVE PRO MIX® Portland Lime Mortar Type S is thoroughly pre-mixed to ensure maximum strength and workability. The mortars can be pre-colored and/or an integral water repellent can be incorporated.

BASIC USE:

Recommended for exterior work at or below grade specifically on:

- Laying brick, block or stone
- For adhering & jointing Stone Veneer
- Stucco bag / Scratch Coat
- Load bearing walls/structures

COMPOSITION & MATERIALS:

ASH GROVE PRO MIX® Portland Lime Mortar Type S is a uniformly blended and ready to use mixture of portland cement (ASTM C150) or Portland Limestone Cement (ASTM C595), fine graded sand (ASTM C144), lime (ASTM C207) and other approved ingredients specifically formulated for masonry applications. Mineral oxide pigments and/or an integral water repellent may also be incorporated when requested.

4. Advantages/Benefits

ASH GROVE PRO MIX® Portland Lime Mortar Type S has several advantages and features including:

- High durability and impact resistant
- Excellent workability
- Strong, durable and long-lasting mortar bond
- Uniform aggregate sizes ensure easier mixing
- Consistent quality and yield versus jobsite mix
- Thoroughly pre-blended mixture requires no dry mixing

5. Preparation

All surfaces that will be in contact with ASH GROVE PRO MIX® Portland Lime Mortar Type S must be entirely free from oil, grease, or any other foreign substances which may interfere with the bond and chemical actions of the material.

Prior to laying brick, block or stone dampen the exposed surfaces and clean thoroughly with water. Make sure that all supportive footings are substantial to hold the stress load.

For mortar repairs chisel out mortar joints to $\frac{3}{4}$ " depth. Remove all loose mortar and sand and dampen the cleaned joint with water prior to application of masonry mortar mix.

6. Mixing Instructions

Use a clean mechanical mixer. Place the required mixing water in the mixer, $1\frac{1}{2}$ gallons per bag, and start the mixer. Be sure to use clean water. Add the required bags of ASH GROVE PRO MIX® Portland Lime Mortar Type S. Continue mixing and adjust the water until a uniform workable consistency is obtained. Mix for a minimum of 5 minutes after all materials have been added to the mixer.

When using ASH GROVE® Cement Color on the jobsite for colored mortar, add and mix thoroughly into the mortar prior to adding water to achieve decorative and creative colors. Available colors are red, black, buff and brown.

7. Color Uniformity

Follow accepted good masonry construction practices. Use clean water from the same source for the entire job. Maintain the same mix proportions from batch to batch. Tool all joints when they reach the same degree of hardness. Tooling when mortar is soft can lighten color, and tooling when mortar is hard can darken color. The use of admixtures, particularly accelerators, is not recommended. Do not clean colored mortar joints with acid. Acid attacks cement, loosening pigments and exposing sand grains.

8. Placement

For laying brick, block or stone:

Starting in a corner, apply a $\frac{1}{2}$ " thick bed of ASH GROVE PRO MIX® Portland Lime Mortar Type S onto the footing. Set corner brick or block into the mortar bed and tap into place. Lay successive masonry units into position after first applying mortar to the head joint and tap into place, maintaining at least $\frac{3}{8}$ " thick mortar joint.

For mortar repairs:

Use a tuck-point trowel or jointing tool to apply mortar on the brick, block or stone and compact.



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9. Curing

Clean all excess mortar off the brick and block faces as soon as possible. Use a jointing tool to smooth and seal the mortar joints after the joint becomes thumbprint hard. Doing so will make the joint watertight and provide a neat appearance. In very hot and dry weather conditions, lightly mist the walls to prevent premature drying of mortar. Do not allow water to run down the wall since it may cause the color to be washed out.

10. Technical Information

ASTM SPECIFICATIONS:

- Meets requirements of ASTM C270 specifications for Type S mortar when used as directed.

COMPRESSIVE STRENGTH (ASTM C109):

- 28 days 1,800 psi (12.4 Mpa)

11. Limitations

Adhering to recommended water additions is very important. Exceeding the maximum recommended water content per bag will result in inferior physical properties.

High IRA (Initial Rate of Absorption) may also decrease strengths. Pre-soaking them is helpful before placing any of the units into the wall. This will keep the water in the mortar and not allow it to be absorbed too rapidly by the masonry units being laid.

Mortar will not bond well to wood, asphalt, or any other foreign substances. NOT to be used as grout for traffic bearing surfaces.

Do not place when temperatures are below 40°F. In cold weather, use warm water and protect from freezing for 48 hours.

Not for vertical applications

12. Coverage

Masonry Unit	80 lb. bag	3000 lb. bag
Standard Brick	41	1550
Queen Size Brick	35	1300
King Size Brick	31	1150
Utility Brick	25	950
4" Block	16	600
6" Block	13	475
8" Block	13	500
12" Block	11	425

Unit yields are not exact and will vary depending on labor practices and site conditions

13. Warning

ASH GROVE PRO MIX® Portland Lime Mortar Type S contains cement and sand. Normal safety wear such as

protective clothing, boots, rubber gloves, dust masks, eye safety glasses should be worn while handling cement-based products. Safety Data Sheets are available upon request or at www.ashgrovepkg.com.

14. Limited Warranty

This product meets or exceeds applicable ASTM C270 standards in force at the time of packaging. Packager, having no control over the use of the material, does not guarantee finished work. Replacement of any defective product or refund of the purchase price of defective product shall be the buyer's sole remedy under this warranty.

THIS LIMITED WARRANTY EXCLUDES ANY LIABILITY FOR ANY CONSEQUENTIAL, INCIDENTAL, INDIRECT OR SPECIAL DAMAGES.

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