



packaging

masonry type S cement

1. Product Name

ASH GROVE® Masonry Type S Cement
Product Number: 160

2. Manufacturer

ASH GROVE PACKAGING GROUP
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3. Product Description

ASH GROVE® Masonry Type S Cement is formulated to provide a mortar with enhanced setting time, workability, water retention, durability and bond. ASH GROVE® Masonry Type S Cement achieves high strength and mechanical resistance. Ideal for use in load bearing walls or wherever higher adhesion, greater compressive and flexural strengths are needed.

BASIC USE:

Recommended for intermediate strength masonry uses such as:

- Laying block, brick, or stone
- Making stucco or plaster
- Making mortar repairs

COMPOSITION & MATERIALS:

ASH GROVE® Masonry Type S Cement is a premium, high quality masonry cement designed and manufactured for use in mortar for masonry construction. The cement is a mixture of portland cement, finely ground mineral materials and special admixtures.

4. Advantages/Benefits

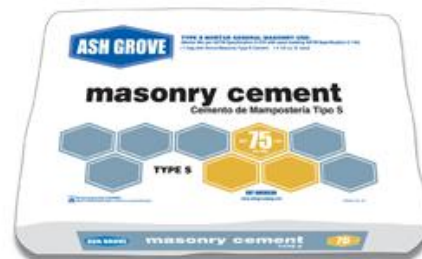
ASH GROVE® Masonry Type S Cement has several advantages including:

- Applicable for above or below grade interior and exterior construction
- Higher mechanical resistance than Type N mortar
- Strong, durable and long-lasting mortar bond
- Easy to mix, finish and cure

5. Preparation

All surfaces that will be in contact with masonry mortar should be entirely free from oil, grease, or any other foreign substances which may interfere with the bond of the mortar to the masonry.

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

Masonry cement is designed to be combined with sand and water in order to produce a masonry mortar mix.

For Type S Mortar Mix (Intermediate Strength; ASTM C-270):
Mix 1 part ASH GROVE® Masonry Type S Cement and $2\frac{1}{4}$ - 3 parts sand (ASTM C-144).

For colored mortar, ASH GROVE® Cement Color can be added and mixed thoroughly into the dry mortar-based material prior to adding water to achieve decorative and creative colors. Available colors are red, black, buff and brown.

Then, add adequate amounts of water to achieve desired workability and consistency. Avoid a 'soupy' mix; too much water will weaken the mortar.

The mortar should be mixed for 3 to 5 minutes after all materials are in the mixer. Use of a machine mixer is recommended to ensure all ingredients are thoroughly combined.

7. Placement

For laying brick, block or stone:

Starting in a corner, apply approximately $\frac{1}{2}$ " thick bed of mortar to the base. Set corner brick, block or stone 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.

8. 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, spray water onto joints to prevent premature drying of the mortar.

9. Technical Information

ASTM SPECIFICATIONS:

- Meets requirements of ASTM C-91 specifications for Type S Cement when used as directed.



masonry type S cement (cont.)

10. Limitations

Adhering to the specified amounts of water additions and properly graded sand meeting ASTM C-144 specifications is very important. Exceeding maximum recommended amounts per bag or using incorrect types of sand will result in inferior physical properties.

Mortar mixes will not bond well to wood, asphalt, or any other foreign substances.

Sand sources and proportions should remain the same throughout the entire project.

Do not place when temperatures are below 40° F or if temperature is expected to fall below freezing within a 48-hour period.

11. Coverage

75 lb. bag (34.0 kg)

12. Warning

ASH GROVE® Masonry Type S Cement contains cement. Normal safety wear such as protective clothing, boots, rubber gloves, dust masks, eye safety glasses should be worn while handling cement-based products. Material Safety Data Sheets are available upon request or at www.ashgrovepkg.com.

13. Limited Warranty

This product meets or exceeds applicable ASTM C-91 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.

EXCEPT FOR THE LIMITED WARRANTY MADE ABOVE, PACKAGER SPECIFICALLY DISCLAIMS AND EXCLUDES ANY OTHER EXPRESS WARRANTY, ANY IMPLIED WARRANTY OF MERCHANTABILITY OF GOODS AND ANY IMPLIED WARRANTY OF FITNESS OF GOODS FOR ANY PARTICULAR PURPOSE.

Ash Grove Packaging reserves the right to change specifications without notice.