



## packaging tile mortar

### 1. Product Name

ASH GROVE PRO® Tile Mortar  
Product Number: 440

### 2. Manufacturer

ASH GROVE PACKAGING GROUP  
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### 3. Product Description

ASH GROVE PRO® Tile Mortar is a portland cement based mortar which is specifically designed for bonding ceramic tile and natural stone to properly prepared substrates. An Acrylic Admixture is necessary as part of the mixing liquid.

#### BASIC USE:

Recommended for installation of:

- Ceramic tile
- Glass mosaics
- Quarry tile
- Slate
- Marble (except warp-able marble)
- Other natural stone
- High bottomed lugged tile
- Porcelain tile
- Pavers
- Cement tile

Recommended for installation over (when combined with acrylic admix):

- Exterior grade plywood – residential
- Properly prepared resilient flooring
- Properly prepared cut back adhesive
- Countertops
- Concrete backer board
- Properly cured and finished concrete
- Tile over tile
- Cement tile
- Where ever thin-set mortar is specified

#### COMPOSITION & MATERIALS:

ASH GROVE PRO® Tile Mortar is a uniformly blended and easy to use mixture of portland cement and finely graded silica sands specifically designed for setting tile interior.

### 4. Advantages/Benefits

ASH GROVE PRO® Tile Mortar has several advantages (when combined with acrylic admix) including:

- Can be used over several surfaces including exterior grade plywood
- Sets most types of ceramic tile or stone
- Interior
- Walls, floors or ceilings

### 5. Preparation

The substrate must be dry, clean, sound and dimensionally stable. It must be free from loose particles, wax, sealers, curing compounds, grease, and efflorescence. Concrete floors must be fully cured (28 days) and have a fine broom finish.

Apply Tile Mortar only to surfaces that are frost free and above 50°F for 72 hours.

Interior Wood Subfloors: (Light traffic, residential floors only)

- Double wood floor required
- Maximum joist spacing: 16" on center
- Subfloor: 5/8" exterior grade plywood or 1" nominal boards
- Overlay: 5/8" exterior grade plywood with 1/4" gaps between sheets. These gaps will be filled with the Flexible Thin Set Mortar when it is applied to set the tile. Plywood must be a group ICC plugged or better.
- Maximum variation in plywood surface shall not exceed 1/8" in 10' from required plane
- Use 6 D ring shank nails in plywood at 6" on center along the sheet edge and an 8" on centers throughout the sheet
- Overlap all joints of the subfloor
- Damp mop floor to remove any dust or sawdust, then allow to dry before applying Tile Mortar

Expansion joints are necessary for exterior installations exceeding 12 to 16 feet in each direction. Interior installations 24 to 36 feet.

Expansion joints shall be located (refer to the *TCA Handbook for Ceramic Tile Installation*):

- Where the work abuts restraining surfaces, such as perimeter walls, curbs, columns, pipes etc.
- Directly over joint in structural floor and over construction or cold joints.
- Directly over expansion or control joints
- Where specified in the architectural drawing

### 6. Mixing Instructions

1. Use cool, clean water, clean tools and clean containers.
2. Mix Ash Grove Acrylic Admix to the mixing water at the rate of 1:3 at a minimum.





## tile mortar (cont.)

3. Add just enough dry powder to the water to produce a thick but trowelable consistency (approximately 1-1/3 1-1/2 gallon per 50 lbs). Too much water will cause the mortar to have reduced strength. Trowel ridges should not flow or slump.

4. Mix thoroughly. Let stand 10 minutes to give all chemicals time to slake. Remix and use. Do not add more water or dry materials after slaking.

5. Do not mix with a high speed mixer. Mixing paddles turning over 150 rpm tend to beat in air and reduce strength of the mortar..

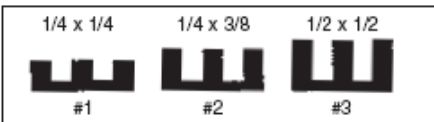
6. Working life in the bucket is approximately 1 hours.

### 7. Placement

All installations must conform to the current specification in ANSI A 108.5 and the *TCA Handbook for Ceramic Tile Installations*.

1. Select the proper trowel size:

- For mosaics, walls, floors, slate, etc. - #1
- For quarry and button back - #2
- For high lugged tile - #3



The proper trowel is one that will insure a minimum of 3/32" layer of mortar between the tile and substrate after the tile has been beaten. The proper trowel should also result in a minimum of 80% COVERAGE, 100% when used exterior.

2. With pressure, apply a skim coat to the substrate with the flat edge of the trowel.

3. Comb the mortar in one direction, with the recommended notched trowel, only that part of the bed that can have tile put on it before skinning occurs. If skinning occurs, scrape and discard skinned mortar.

4. Press tile into place and slide perpendicular to the ridges to ensure proper coverage.

5. Tile may be adjusted up to 15 minutes after placing.

6. Tile floor must be firmly set before grouting. This requires at least 48 hours.

7. Grout with ASH GROVE PRO® Sanded Floor Grout or ASH GROVE PRO® Unsanded Drywall Grout.

### 8. Curing

Cooler temperatures may slow down the setting time of the mortar. Allow additional time before grouting tiles in cooler temperatures. No additional curing is required.

### 9. Technical Information

- Meets requirements of ANSI A118.4 specifications when used as directed and combined with Acrylic Admix.

### 10. Limitations

- Do not apply to frozen or frosted surface; mortars should not be applied to backings that are below 50°F, nor should the mortar be exposed to freezing conditions during the first 72 hours of curing.
- Do not adjust the tile after mortar takes its initial set or the bond will be permanently broken.
- Do not add water or dry material after the thin-set mortar has slaked; this causes shrinkage and results in poor bond.
- Do not soak tile.
- Do not use worn trowels; it is important to have the ribbons of the Tile Mortar the full depth of the trowel notches.
- Add only cool, clean water to Tile Mortar.
- Do not allow traffic on freshly installed tile for 48 hours.

### 11. Coverage

Per 50 lb. bag

Trowel #1 – 1/4" x 1/4" sq. notch ..... 100 sq. ft.

Trowel #2 – 1/4" x 3/8" sq. notch ..... 80 sq. ft.

Trowel #3 -- 1/2" x 1/2" sq. notch ..... 45 sq. ft.

### 12. Warning

ASH GROVE PRO® Tile Mortar contains portland cement and silica sand. Normal safety wear such as protective clothing, boots, rubber gloves, dust masks and eye safety glasses should be worn while handling cement-based products. Material Safety Data Sheets are available upon request or at [www.ashgrovepkg.com](http://www.ashgrovepkg.com).

### 13. Limited Warranty

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.**