

# A High-Performance Mortar For Big Tile Challenges

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More Information ▶

## TEC® 3N1™ Performance Mortar

Porcelain panels are larger, thinner and more popular than ever. 3N1™ is a high-performance mortar ideal for installing heavy and large-format porcelain tiles on floors and walls. With no-sag, no-slump and slip resistance, this lightweight, polymer-modified mortar provides high performance, and superior troweling to help reduce fatigue — so installers can rest easy in a job well done.

**Contact your local sales rep to request a demo. Have a question? Visit [TECQuestions.com](http://TECQuestions.com).**



[TECSpecialty.com](http://TECSpecialty.com)



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## 3N1™ Performance Mortar

Ideal for use on floors and walls with heavy and large-format porcelain tile up to 6 pounds per ft<sup>2</sup>, TEC® 3N1™ Performance Mortar provides superior troweling and handling to help reduce fatigue, and exceeds ANSI A118.4TE, A118.11 and A118.15TE shear bond specifications. The lightweight formulation provides 50 pounds (22.68 kg) of coverage with only 30 pounds (13.6 kg) of actual weight, is mold and mildew resistant, and allows an extended open time for maximum adjustability. For details about TEC® product or system warranties, contact your sales associate or visit [tecspecialty.com](http://tecspecialty.com).



Superior bond for porcelain tile applications



Non-slip for large tile and stone weighing up to 6 pounds per square foot used in wall applications



Fast Set formula also available (Made to Order)

### Features and Benefits

- Easy troweling mortar with extended open time for maximum adjustability
- Exceeds ANSI A118.4TE, A118.11 and A118.15TE specifications
- Non-slump for heavy tile and stone floor applications
- Mortar resists mold and mildew growth
- Lightweight — 30 pound bag provides same coverage as 50 pounds of traditional latex modified mortar

### Suitable Substrates

When properly prepared, suitable substrates include:

- Cured concrete, cured mortar beds, brick and masonry (interior/exterior installations)
- APA Grade Trademarked Exposure 1 Plywood [Underlayment grade or better, two layers, 1 1/8" (28 mm) total minimum thickness for joists 16" (40 cm) o.c., interior floors only]
- Gypsum wallboard (dry interior wall areas only)
- Water resistant gypsum wallboard (i.e. greenboard, interior walls only, dry to intermittent water exposure only)
- Cementitious backer units (CBU) or glass mat backerboard
- Existing ceramic tile and natural stone, provided existing flooring is well-bonded to an approved substrate
- Vinyl composition tile, asphalt tile, linoleum or non-cushioned vinyl sheetgoods provided such surfaces are single layered, well-bonded to an approved substrate and properly prepared
- Plastic laminate (interior countertops only) provided the counter is structurally sound and level
- Adhesive residue (except tacky or pressure-sensitive adhesive) scraped down to a thin semi-transparent layer

### Packaging

30 lb. (13.6 kg) moisture-resistant bags

Gray (384)

White (385)

Fast Set Gray (517) - Made to Order\*

Fast Set White (518) - Made to Order\*

\*Longer lead times may apply.

Product #7010103611

Product #7011353611

Product #7045743611

Product #7045753611

### Coverage

Coverage will vary with condition of substrate. Required trowel size will vary with the tile size, type and substrate uniformity. Select the trowel size that will ensure 100% coverage. Figures below are presented only as guidelines.

Trowel Size	Approximate Coverage per 30 lbs. (13.6 kg)
1/4" x 1/4" x 1/4" (6 x 6 x 6 mm) square-notch trowel	80-90 sq. ft. (7.4-8.4 m <sup>2</sup> )
1/4" x 3/8" x 1/4" (6 x 9 x 6 mm) square-notch trowel	55-65 sq. ft. (5.1-6 m <sup>2</sup> )
1/2" x 1/2" x 1/2" (12 x 12 x 12 mm) square-notch trowel	40-50 sq. ft. (3.7-4.6 m <sup>2</sup> )
3/4" (19 mm) rounded-notch trowel	30-40 sq. ft. (2.8-3.7 m <sup>2</sup> )

### Technical Data

#### Physical Properties

Description	
Physical State	Dry powder
Color	Available in white and gray
Open Time	80-90 minutes
Pot Life	2 to 3 hours
Initial Cure (at 72°F (22°C))	16 to 24 hours
Final Cure	21 days
Foot Traffic Rating (ASTM C627)	Residential to Extra Heavy Commercial (depending on substrate)
Storage	Store in a cool, dry area away from direct sunlight. Do not store open containers.
Shelf Life	Maximum 1 year from date of manufacture in properly stored, unopened package.

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Conforms with LEED v4 low emitting interiors.  
Compliant with (CDPH) Standard Method v1.2 VOC Emissions.