

1. PRODUCT NAME

Tech-Mix® Mortar Mix Type N

2. MANUFACTURER

TCC Materials®
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Mendota Heights, MN 55120 USA

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Tech-Mix® is a registered trademark of TCC Materials®

3. PRODUCT DESCRIPTION

Tech-Mix Mortar (Mason) Mix Type N is a specifically formulated blend of sand, Portland cement, and hydrated lime for laying brick, block and stone for interior, exterior, non-load-bearing construction.

FEATURES AND BENEFITS

- Preblended mix
- Quick and easy
- Just add water, mix and use
- Meets ASTM C270

WHEN/WHERE TO USE

- Laying brick, block, and stone
- Building or repairing chimneys, grills, and planters
- Thin stone and brick veneers
- Tuckpointing
- Stucco repair

SAFETY

READ THE SAFETY DATA SHEET (SDS) BEFORE USING THIS PRODUCT. SDS information is available on our website: tccmaterials.com or contact TCC Materials at 651-688-9116 (7:30 AM to 4:00 PM, M-F, Central US Time).

CAUTIONS

Read complete cautionary information printed on product container prior to use.

This Product Data Sheet has been prepared in good faith on the basis of information available at the time of publication. It is intended to provide users with information about and guidelines for the proper use and application of the covered Tech-Mix brand product(s) under normal environmental and working

conditions. Because each project is different, TCC Materials cannot be responsible for the consequences of variations in such conditions, or for unforeseen conditions.

4. TECHNICAL DATA

Meets or exceeds the requirements of ASTM C 1714. Complies with ASTM C 270.

Typical Values • Mortar Mix Type N	
ASTM C 1714 COMPRESSIVE STRENGTH	
28 Days	750 psi min.

AVAILABLE SIZES

60 lb. (27.2 kg.) bag (BOM #104881)

80 lb. (36.3 kg) bag (BOM #111161)

SHELF LIFE

Best when used within 12 months from the date of manufacture when stored in the original, unopened container, away from moisture, under cool, dry conditions and out of direct sunlight.

5. INSTALLATION

PREPARATION

Read all directions before starting work. When laying a new masonry wall, construct a sound footing below the first line using Tech-Mix Concrete Mix. When repairing mortar joints or stucco, rake out excess mortar and/or brush out the joints to remove loose mortar or sand. Dampen areas to be repaired with water prior to application with no residual water pooling.

Note: It is the responsibility of the installer/applicator to ensure the suitability of the product for its intended use.

JOB MOCKUPS

The manufacturer requires that when its Tech-Mix products are used in any application or as part of any system that includes other manufacturers' products, the contractor and/or design professional shall test all the system components collectively for compatibility, performance and long-term intended use in accordance with pertinent and accepted industry standards prior to any construction. Written documentation of the tests performed shall be satisfactory to the design professional and contractor. Test results must include the means and methods of application, products used, project-specific conditions being addressed, and standardized tests performed for each proposed system or variation.



MIXING

Tech-Mix Mortar Mix Type N can be mixed by hand or by machine. Add the minimum amount of potable water from the chart below into the mixing container. Slowly pour the contents of the bag into the potable water. Mix until a workable consistency is reached. If more water is needed, add small increments to reach a workable mix. Do not exceed a total volume as listed on the chart. Excess water reduces strength and durability and can cause cracking. In cold weather, use warm water to accelerate the set. In hot weather, use cold water to slow the set.

Approximate Water Requirements	
60 lb. bag	4 - 5 qt. (3.7-4.7 L)
80 lb. bag	4.5 - 6.5 qt. (4.3-6.2 L)

APPLICATION

Ideal application conditions are when air, material, and substrate temperatures are between 40°F-100°F (4°C-38°C) within 24 hours of application and placement, and when rain is not forecast 24 hours after. Set times will vary in extremely hot or cold conditions. Do not apply over concrete cured less than 28 days or surfaces that are frozen or contain frost.

Block or brick placement: For the first layer of block or brick, spread a full bed of mortar 1 in. (25 mm) thick along the footing and position the corner block/brick carefully in the mortar bed. Beginning with the second block/brick apply mortar to the head joint (vertical edge) and press the block/brick down into the mortar and place into position against the previously laid block/brick. Mortar joints should be a consistent 3/8 in. (10 mm) thick. Use a level and mason's line to maintain alignment and joint width throughout the project. Make any adjustments by tapping the block/brick with the trowel handle while the mortar is still workable. For the remaining courses, mortar is applied to the vertical edge of each block/brick

Helpful Items:



before it is placed. Once the mortar joints have become “thumbprint” hard, use a jointing tool to smooth and seal the joints.

Stucco repair: When repairing stucco, apply the material using a plasterer’s hawk and trowel using enough pressure to completely fill and compact the material. Texture stucco to match the surrounding area using a plasterer’s trowel. Tech-Mix Mortar Mix Type N can be painted using an alkali resistant lime proof paint, allow a minimum of 7 days prior to painting provided the masonry is dry.

Tuckpoint (repairing) mortar joints: Load the trowel with mortar. Pick up the mortar from the trowel with a jointer tool and pack it firmly into the joints. Once the mortar has become “thumbprint” hard, use the jointer tool or other appropriate tool to finish the repaired joints so that they match the existing joints. Clean excess mortar off the brick faces as soon as possible.

CURING

Curing means maintaining proper moisture and temperature to increase the strength and durability of concrete and is one of the most important steps in concrete construction. A poor curing job can ruin an otherwise well-done project. The ideal circumstances for curing are ample moisture and moderate temperature and wind conditions. When weather is too hot, dry or windy, water is lost by evaporation from the concrete, and hydration stops, resulting in finishing difficulties and cracks. In such cases, concrete can be moist cured by a gentle mist of water applied to the surface or covering the concrete surface with plastic sheeting. Curing should be started as soon as possible without damaging the concrete finish and should continue for a period of 5 days in warm weather at 70°F (21°C) or higher or 7 days in colder weather at 50°-70°F (10°- 21°C). In near



freezing temperatures the hydration process slows considerably. Protect mortar from freezing during the first 48 hours; if temperatures are expected to fall below 32°F (1°C), plastic sheeting and insulation blankets should be used.

CLEANING

Use soapy water to clean hands and tools immediately after use. Dried material must be mechanically removed. Use a waste water hardener (e.g. Congelz™ or similar product) for cementitious waste disposal.

LIMITATIONS

- Do not add aggregate.
- Do not overwater. Do not exceed water limits listed when mixing.
- Set times will fluctuate in extremely hot or cold weather. Use cold water in severely hot weather; use hot water (not exceeding 120°F (48°C) when mixing in severely cold weather.
- Always comply with the steel reinforcement requirements of applicable building codes for structural applications.
- Follow all industry standard safety procedures when working with concrete products including wearing impervious gloves, such as nitrile when handling.
- Mortar Mix Type N should be installed in accordance with local building code provisions and all applicable ASTM standards.

COVERAGE

- Each 60 lb. (27.2 kg.) bag will yield approximately ½ cu. ft. of wet mortar.
- For laying brick, block or stone, each 60 lb. bag will lay approximately 8 - 8” modular concrete blocks or 20 standard bricks with a ¾ in. mortar joint.
- As a stucco coating, each 60 lb. bag will cover approximately 50 sq. ft. at ¾ in. thickness.
- Each 80 lb. (27.2 kg.) bag will yield approximately ¾ cu. ft. of wet mortar.
- For laying brick, block or stone, each 80 lb. bag will lay approximately 15- 8” modular concrete blocks or 40 standard bricks with a ¾ in. mortar joint.
- As a stucco coating, each 80 lb. bag will cover approximately 65 sq. ft. at ¾ in. thickness.

WARNING: INJURIOUS TO EYES

KEEP OUT OF REACH OF CHILDREN

- Remember to estimate extra for waste, spillage, an uneven surfaces.

6. AVAILABILITY

To locate Tech-Mix products in your area, please contact:

Phone: 1.651.688.9116
Website: tccmaterials.com

7. WARRANTY

Seller warrants that its product will conform to and perform in accordance with the product specifications. The foregoing warranty is in lieu of all other warranties, expressed or implied, including, but not limited to those concerning merchantability and fitness for a particular purpose. Because of the difficulty in ascertaining and measuring damages hereunder, it is agreed that Seller’s liability to the Buyer shall not exceed the total amount billed and billable to the Buyer for the product hereunder.

8. MAINTENANCE

Not applicable.

9. TECHNICAL SERVICES

Technical Assistance:

Information is available by calling TCC Materials (hours 7:30 AM to 4:00 PM, M-F, CST):

Phone: 1.651.688.9116
Fax: 1.651.688.6164
Web: tccmaterials.com

Technical and Safety Literature:

To acquire technical and safety literature, please visit our website at: tccmaterials.com.

10. FILING SYSTEM

Division 3 and Division 9

Shelf Life	One year in original, unopened bags
Storage Conditions	Store dry. Condition material to 50°-80°F (10°-27°C) before using.
Color	Gray