COREFILL MASONRY GROUT

Preblended grout mix for filling voids in masonry construction

1. PRODUCT NAME

Tech-Mix® Corefill Masonry Grout

2. MANUFACTURER

Tech-Mix® is a registered trademark of TCC Materials
2025 Centre Pointe Blvd., Suite 300
Mendota Heights, MN 55120 USA
Phone: 1.651.688.9116
Web: techmixpro.com

3. PRODUCT DESCRIPTION

Tech-Mix Corefill Masonry Grout is formulated for superior flow to fill masonry voids while meeting ASTM C476 requirements for reinforced masonry construction. Corefill Masonry Grout is used to bond masonry units and steel reinforcement in the cores of the units together, as well as, filling reinforced bond beams. Available in both coarse and fine mixes.

Features and Benefits

- Preblended, just add water to mix
- Superior flow and consistency
- Meets or exceeds ASTM C-476
- Excellent bond strength
- Produces structurally sound wall systems

When/Where to Use

- Fills reinforced bond beams
- Bond adjacent masonry units
- Bond steel reinforcements in the cores of masonry units
- Fills masonry voids

4. TECHNICAL DATA

Corefill Masonry Grout meets or exceeds the performance requirements of ASTM C476 for masonry grouts.

Typical Values • Tech-Mix Corefill Masonry Grout	
28 Day Average Compressive Strength Test Results (ASTM C39)	
Tech-Mix Corefill Masonry Grout	ASTM C476 Minimum Requirements
> 3,000 psi (20.7 MPa)	2,000 psi (13.8 MPa)

Greater than: > Greater than or equal to: ≥ Less than: < Less than or equal to: ≤
Note: Test results obtained under controlled laboratory conditions at 73°F (22.7°C) and 50% relative humidity unless otherwise specified.

Available Size

- Corefill Masonry Grout - Coarse Mix 80 lb. (36.3 kg) bag (BOM #111227)
- Corefill Masonry Grout - Fine Mix 80 lb. (36.3 kg) bag (BOM #111237)

Coverage

- One 80 lb. (36.3 kg) bag will yield approximately 0.65 cu. ft. (18.4 L) of wet mortar.

Approximate Coverage Tech-Mix Corefill Grout per 80 lb. bag		
Block Size	**Blocks Filled**	**Cores Filled**
6 in. Block	3.4 - 3.8	6.8 - 7.6
8 in. Block	2.5 - 2.9	5.0 - 5.8
10 in. Block	2.1 - 2.3	4.2 - 4.6
12 in. Block	1.7 - 1.9	3.4 - 3.8

** All yields are approximate and do not allow for waste and job site conditions.*

5. INSTALLATION

Preparation

Read all directions before starting work. All materials should be conditioned to 40°F-75°F (4°C-24°C) 24 hours prior to installation. Proper surface repair preparation is crucial to achieving a successful application. Clean area and remove all loose and unsound materials that will inhibit performance.

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

Mixing

1. Only mix with clean potable water. Addition of cold water at high temperatures or warm water at low temperatures will aid in adjusting the mix temperature.
2. A mortar paddle mixer or a concrete drum mixer should be used to ensure consistency and flowability. Hand mixing should only be allowed with written approval and directions from the specifier.
3. Place approximately 2.6 qt. (2.5 L) of water into mixer for each 80 lb. (36.3 kg) bag of powder, start mechanical mixer then slowly add the dry material.
4. Mix for 5 minutes to ensure a uniform lump free consistency and place immediately. Keep mix time consistent from batch to batch.
5. The slump must be 8”-11” (200-280 mm) to comply with ASTM C476 and local building codes.
6. If more water is required to reach a flowable slump, add small amounts of water at a time. Avoid adding excessive amounts of water that promotes segregation and reduces the strength of the grout. Do not exceed 6 qt. (5.7 L) of water for each 80 lb. (36.3 kg) bag.
7. Do not mix more material than can be placed in a 60 to 90 minute time frame

Application

Apply only to surfaces that are frost free and above 40°F (4°C) and below 100°F (38°C) within 24 hours of application and 7 days thereafter.

1. Fluid working time approximately 60 to 90 minutes @ 70°F (21°C).
2. Place by mechanical delivery pump or by hand. To place by hand, transfer mixed product into 5 gal. bucket, then pour into the cores of the wall.
3. Grout all concrete masonry blocks, rebar-reinforced cells, and bond beams.
4. Consolidate upon placement to eliminate air holes by vibrating the grout and refill spaces in accordance with local building code requirements.

5. For grout pours of 12 in. (2.5 cm) height or less consolidate by mechanical vibration or by puddling.
6. For grout pours exceeding 12 in. (2.5 cm) height consolidate by mechanical vibration, and reconsolidate by mechanical vibration after initial water loss and settlement has occurred.
7. Place grout the entire height of masonry only after the grouted areas have reached sufficient strength to resist grout pressure.
8. Course grout may be used in spaces between brick masonry, 2 in. (5 cm) or more in horizontal dimensions where no horizontal steel is in the grout space, and the cores of the block that are 4 in. (10 cm) or more in both horizontal dimensions. If the cavity is smaller, than above, a fine grout should be considered.
9. A vibrator, rod, chain, or trowel may be used to assist in consolidating the grout and eliminating air voids.

Curing
No special curing is required under normal installation conditions. Temperatures should remain above 40°F (4°C) for a minimum of 7 days. If temperatures are expected to drop below freezing during these 7 days, thermal insulation blankets or plastic sheeting should be used. Full cure is reached after 28 days.

Clean Up
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
- Follow all industry standard safety procedures when working with concrete products including wearing impervious gloves, such as nitrile when handling.
- Do not overwater. Do not exceed water limits when mixing.
- Do not mix more grout than can be placed in 60 minutes.
- Install in accordance with local building codes and applicable ASTM standards.
- Use a mechanical batch type mixer, hand-mixing is not recommended.
- Mixing time and water amounts should be consistent from batch to batch.
- Grout should be cured for a minimum of 28 days.

Safety
READ THE SAFETY DATA SHEET (SDS) BEFORE USING THIS PRODUCT. SDS information is available on our website: techmixpro.com

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.

6. AVAILABILITY
To locate Tech-Mix products in your area, please contact:
Phone: 1.651.688.9116
Website: techmixpro.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.

Shelf Life	Best when used within one year in original, unopened bags
Storage Conditions	Store dry, cool, out of direct sunlight. Best to condition material to 50-80°F (10°-27°C) before using.
Color	Gray

WARNING: INJURIOUS TO EYES

KEEP OUT OF REACH OF CHILDREN

TCC MATERIALS
SPEC BLENDED CONSTRUCTION PRODUCTS®

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