



PORTLAND CEMENT TYPE III

High early strength Portland cement

1. PRODUCT NAME

Tech-Mix® Portland Cement - Type III

2. MANUFACTURER

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

3. PRODUCT DESCRIPTION

Tech-Mix Portland Cement - Type III is a low-alkali, special purpose hydraulic cement used to make concrete for a variety of building construction, repairs, grouts, or mortar applications where higher early strength than Type I-II Portland is needed. Use for those jobs where a structure must be put into service quickly or when forms need to be removed as soon as possible, such as pre-cast or pre-stress applications.

Features and Benefits

- High early strength
- Durable
- Cost effective
- High strength
- Meets or exceeds ASTM C-150

When/Where to Use

- When construction calls for a fast-setting mix design
- Basic building material for pavement, sidewalks, reinforced concrete buildings, masonry units, and more
- Pre-cast and pre-stress applications
- Interior and exterior
- Commercial and residential uses
- New construction and repairs

4. TECHNICAL DATA

Meets or exceeds the requirements of ASTM C-150.

Typical Values • Tech-Mix Portland Cement Type III	
Compressive Strength, psi (ASTM C-150)	
1 day	1,740 psi (12 MPa)
3 days	3,480 psi (24 MPa)

Available Size

- 92.6 lb. (42 kg) bag (BOM #100722)

Coverage

- Each 92.6 lb. bag contains 1 cu. ft.

5. INSTALLATION

Preparation

Read all directions before starting work.

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

Mixing

Refer to the mix designs chart for typical proportions by volume per appropriate application. Add the minimum amount of clean water necessary, too much water will weaken the product. Mix until uniform, workable consistency is reached.

Typical Mix Designs by Volume		
Concrete Mix		
Portland Cement	General Purpose Sand (ASTM C-33)	Gravel or Stone (ASTM C-33)
1 Part	2 Parts	3 Parts
Mortar Mix (Type S, ASTM C-270)		
Portland Cement	Hydrated Lime Type S	Masonry Sand (ASTM C-144)
1 Part	½ Part	3½ - 4½ Parts

Application

Concrete will have initial set minimum of 45 minutes, and final set maximum of 375 minutes. The air, mix, and substrate temperatures should all be between 40°-90°F (4.4°-32.2°C). Protect from freezing for at least 48 hours

Curing

To aid curing, spray surface lightly with water 2-3 times per day for 3 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

- Use only clean mixing container and tools.
- Follow all industry standard safety procedures when working with concrete products including wearing impervious gloves, such as nitrile when handling.
- Portland Cement mixes should be installed in accordance with local building code provisions and all applicable ASTM standards.

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, in tightly closed container.
Color	Gray

WARNING: INJURIOUS TO EYES

KEEP OUT OF REACH OF CHILDREN



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