

# Fast Setting Mortar

# 1. PRODUCT NAME

TEC<sup>®</sup> Skill Set<sup>™</sup> Fast Setting Mortar

#### 2. MANUFACTURER

H.B. Fuller Construction Products Inc. 1105 South Frontenac Street Aurora, IL 60504-6451 U.S.A. 800-832-9002 Customer Support 800-952-2368 Fax tecskillset.com



# **3. DESCRIPTION**

TEC<sup>®</sup> Skill Set<sup>™</sup> Fast Setting Mortar is an accelerated latex modified thin set mortar that exceeds ANSI A118.4 and ANSI A118.11. Use for installing ceramic and natural stone tiles including mosaics, slate and porcelain on walls or floors interior and exterior.

#### **Key Benefits and Features**

- Cure only 3 hours before grouting
- Excellent for ceramic, porcelain and natural stone
- Mix with water no additive needed

#### Packaging

25 lbs. bag; gray 50 lbs. bag; gray

#### 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	
	25 lbs.	50 lbs.
3/16" X 5/32"	75-80 sq. ft.	150-160 sq. ft.
V-notch trowel		
1/4" x 1/4" x 1/4"	48-53 sq. ft.	96-106 sq. ft.
square-notch		
trowel		
1/4" x 3/8" x 1/4"	33-38 sq. ft.	66-76 sq. ft.
square-notch		
trowel		

# Suitable Substrates

When properly prepared, suitable substrates include:

- Gypsum wallboard
- Water resistant gypsum wallboard (greenboard)
- Cementitious backer units (CBU)
- Glass mat backer board
- Cured concrete, cured mortar beds, brick and masonry
- APA Grade Trademarked Exposure 1 Plywood [underlayment grade or better, two layers, 1 1/8" total minimum thickness. Interior floors onlv]

- Existing ceramic tile and natural stone, provided existing flooring is well-bonded to an approved substrate
- Vinyl composition tile, asphalt tile, linoleum or noncushioned vinyl sheet goods (provided existing flooring is well-bonded to an approved substrate)
- Adhesive residue (except tacky or pressure-sensitive adhesive)

# Storage

Store in a cool, dry area away from direct sunlight. Do not store open containers.

#### Shelf Life

Maximum of 1 year from date of manufacture in unopened package.

#### Limitations

Not for installing green marble or other moisture-sensitive stone tile. For non-green marble tile applications, use white thin set mortars. Not for use over rubber, strip wood floors, oriented strand board, particle board or lauan plywood. For CDX plywood, use TEC® Skill Set<sup>™</sup> Latex Mortar Additive with TEC® Skill Set<sup>™</sup> Floor Mortar. Do not apply over singlelayer wood floors. Certain natural stone tiles may be affected by mortar shadowing or staining. Test a small area prior to use to determine suitability.

# Cautions

FIRST AID MEASURES: In all cases, seek medical attention if symptoms develop or persist. EYES: Flush with water for 20 minutes. SKIN: Wash with soap and water. IF VAPORS INHALED: Remove to fresh air. IF SWALLOWED: Do not induce vomiting. WARNING! This product contains chemicals known to the State of California to cause cancer, birth defects or reproductive harm. KEEP OUT OF REACH OF CHILDREN. For Medical Emergency Information, call 1-888-853-1758.

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 TEC<sup>®</sup> Skill Set<sup>™</sup> brand product(s) under normal environmental and working conditions. Because each project is different, H.B. Fuller Construction Products Inc. cannot be responsible for the consequences of variations in such conditions, or for unforeseen conditions.



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# 4. TECHNICAL DATA

#### Applicable Standard

TEC® Skill Set™ Fast Setting Mortar			
Description	ANSI Requirement	Typical Results	
28 Day Shear			
Strength ANSI A118.4			
Glazed Wall Tile	> 300 psi (2.1 MPa)	430-525 psi (2.9-3.6	
		MPa)	
Impervious Ceramic	> 200 psi (1.4 MPa)	300-400 psi (2.0-2.7	
Tile (Porcelain)		MPa)	
Quarry Tile	> 150 psi (1.0 MPa)	335-410 psi (2.3-2.8	
		MPa)	
Sag on Vertical	≤ 1/16"	0-1/32"	
Surfaces			
Open Time at Room	≥ 20 minutes	20-30 minutes	
Temperature			
Adjustability at Room	≥ 20 minutes	≥ 20 minutes	
Temperature			
Final Set	≤ 3 hours	2 1/2 - 3 hours	
28 Day Shear			
Strength ANSI			
A118.11			
Quarry Tile to	> 150 psi (1.0 MPa)	190-250 psi (1.3 – 1.7	
Plywood		MPa)	

# **Physical Properties**

Dry Powder
Available in gray
50 minutes
2 1/2 - 3 hours
21 days
Residential to Extra Heavy Commercial
(depending on substrate)

# **5. INSTALLATION INSTRUCTIONS**

#### **Surface Preparation**

All substrates must be dry, structurally sound with maximum deflection per industry standards of  $\frac{1}{360}$  for ceramic tile installations and  $\frac{1}{20}$  for natural stone installations under all live and dead loads; and be free from oil, grease, dust, paint, sealers or concrete curing compounds. All contaminants should be removed prior to installation of tile. Surface protrusions and tile glazes shall be removed by sanding, scraping or scarifying. After preparation, remove all dust by vacuuming. *Note:* Vinyl asbestos tile or any substrate containing asbestos shall not be sanded, scored or scarified because of the potential health hazard of breathing dust. Any substrate containing asbestos must be handled in accordance with existing EPA regulations. Contact your local EPA office.

**Notes:** Expansion joints must be provided in the tile work over all construction, control and expansion joints in the backing and where backing materials change. Follow ANSI A108.01 Section 3.7 Requirements for Expansion Joints. Maximum variations in all substrates must not exceed  $\frac{1}{4}$ " in 10 ft. or  $\frac{1}{16}$ " in 1 ft. from the required plane. For non-level, interior surfaces use TEC<sup>®</sup> Skill Set<sup>TM</sup> Self Leveling Underlayment.

#### Mixing—With Water

For best results, maintain all tiling materials, substrates, room and adhesives at 50°-70°F (10-21°C) for 24 hours before and 48 hours after installation. Avoid breathing dust and contact with eyes and skin. Avoid using high speed mixing, not to exceed 300 rpm, to prevent entraining air. Add powder to liquid for ease of mixing.

In a clean mixing container, slowly add product to clean, cool, water as specified in the chart below.

Size	Water
25 lbs.	2.5-3 quarts
50 lbs.	5-6 quarts

Mix material for 2-4 minutes to a thick creamy consistency. Use immediately.

# Application

Apply mortar using flat side of trowel to promote better substrate contact, then comb in one direction with the notched side of the trowel. Spread only an area that can be tiled while surface is still tacky (typically 10-15 minutes.) Press tiles into setting bed, then push in a direction perpendicular to the notched trowel ridges to achieve optimum coverage. Apply mortar in a heavy enough layer so that complete contact (no voids) between mortar and tile is accomplished when tile is positioned. It may be necessary to "backbutter" large tiles to achieve complete coverage and firm support. Periodically remove and check a tile to assure proper coverage. Keep a minimum of 2/3 of the joint depth between tiles for grouting.

Open time and tile hand adjustability may vary with job site conditions. Stir occasionally during use to maintain the smooth, creamy consistency of the product. **Do not add additional water.** 

# **Drying Time**

Grouting may be accomplished when tiles are held firmly in place, typically 2 ½ - 3 hours after installation is completed. No traffic is permitted over the tiles prior to grouting. Cold temperatures or high humidity may extend curing time. Unglazed tiles may require sealing prior to grouting so discoloration will not occur. The use of TEC® Skill Set<sup>™</sup> brand grouts or TEC® Power Grout<sup>™</sup> is highly recommended.



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# Clean Up

Clean tools, hands, and excess materials from face of tile, while mortar is still fresh, with warm soapy water.

# 6. WARRANTY

For details about our limited warranties, see your sales associate or **tecskillset.com**.

# 7. TECHNICAL SERVICES

# **Technical Assistance** Information is available by calling the Technical Service Helpline. Toll Free: 800-832-9023

Fax: 630-952-1235

# **Technical and Safety Literature**

To acquire technical and safety literature, please visit our website at **tecskillset.com**.