

Unsanded Thin-Set Mortar

1 Product Name

Unsanded Thin-Set Mortar

2 Manufacturer

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3 Product Description

UNSANDED THIN-SET is the dry set mortar of choice for sheet mounted mosaics and 4-1/4" x 4-1/4" (11 x 11 cm) wall tile. Meets ANSI A118.1 and ANSI A108.5.

Uses

UNSANDED THIN-SET is to be used as a bond coat for setting absorptive, semi-vitreous and vitreous ceramic tile in residential or commercial installations. UNSANDED THIN-SET is an excellent water and impact resistant dry set mortar. UNSANDED THIN-SET is also water cleanable and nonflammable. It is good for interior and exterior work and requires no soaking of tiles. UNSANDED THIN-SET will not be affected by prolonged contact with water. It provides a permanent installation with higher bond strength and lower material and labor cost than conventional Portland cement mortar beds.

Suitable Substrates

Suitable backings, when properly prepared, are plumb and true masonry concrete, gypsum board (dry areas only), WonderBoard® Backerboard, cured Portland cement mortar beds, brick, ceramic tile and marble.

Limitations to the Product

UNSANDED THIN SET must not be used directly over wood, asphalt sheeting, vinyl covered wallboard, Masonite®, cement asbestos board, painted surfaces, metal, glass or plastic. Use in temperature ranges above 40° F (4.5° C). Protect from freezing for the first 72 hours.

4 Technical Data

Technical Chart

Technical Data

	Typical Value
Open Time @ 70° F (21° C)	>120 minutes
Adjustability @ 70° F (21° C)	>120 minutes
Shear Bond Strength	
Non-Vitreous Tile: 7 day	>300 psi (21.1 kg/cm ²)



5 Instructions

General Surface Prep

All surfaces on which tile are to be set must be dry, structurally sound, free of any dirt or curing compounds, and not subject to temperatures below 40° F (4.5° C) or above 100° F (38° C). For use over ceramic tile, scarify surface of tile then prime with JAMO STAR BOND. Additional installation procedures may be found in the TCA Handbook.

Mixing Procedures

Add the contents of the bag to approximately 1-1/2 gallons (5.67 L) of clean water suitable for drinking, or if desired, JAMO STAR SET 1000. Clean silica sand should be added to this mix, maximum 10 pounds (4.54 kg) per 25 pound (11.34 kg) bag. Mix thoroughly and let stand for 15 minutes then remix before using. Mortar should be of a thick, trowelable consistency. If a mechanical mixer is to be used, it must be done at a low RPM (150) so as not to entrap air into the mortar. Do not add water, latex, or additional powder after slaking period.

Application of Product

Remove any dirt or other foreign material from the area to be tiled. With pressure, apply a skim coat on the substrate using the flat side of the trowel. With a notch trowel, immediately follow with a heavier coat of material leaving enough mortar to provide 100% coverage to the back of the tile. The mortar bed should be 3/32" (2.4 mm) thick. With high lug tile, back buttering may be required to ensure 100% coverage to the back of the tiles. For best results, cover only a small area at a time with this mix. Then immediately cover this area with tile and beat in the tile. Once initial set has taken place do not vibrate or beat the tile or its backing.

Curing of Product

A minimum cure will be obtained in 12 – 24 hours depending on ambient temperatures and humidity. Normal grouting should be done 24 hours after initial set.

Cleaning of equipment

Water will remove uncured mortar from the tile surface and tools.



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Health Precautions

May cause eye, skin or lung injury. Contains free silica. Prolonged exposure to dust may cause delayed lung disease (silicosis). May cause cancer based on animal data. Eliminate exposure to dust. Use NIOSH approved dust mask for silica dust. Contains Portland cement. If any cement or cement mixture gets into eyes, flush immediately and repeatedly with water, and consult physician promptly. Fresh mixed cement, mortar, concrete, or grout may cause skin injury. Avoid contact with skin where possible and wash exposed skin areas promptly with water. KEEP OUT OF REACH OF CHILDREN.

6 Availability & Cost

Item Code	Color	Size	Package
120001	White	25 pounds (11.34 kg)	Bag

Texture

Powder, consisting of Portland cement, sand, organic and inorganic chemicals.

7 Product Warranty

Seller warrants that should this product prove to be defective material, it will replace the same or refund the purchase price of the goods. THIS WARRANTY IS IN PLACE OF ALL OTHER WARRANTIES EXPRESSED OR IMPLIED. WARRANTIES OF MERCHANTABILITY AND OF FITNESS ARE HEREBY DISCLAIMED. The suitability of a product for an intended use shall be solely up to the user. Seller assumes no liability for consequential damages. Its liability shall in no event exceed the purchase price of the materials supplied by it. No person has the authority to change these items and there are no warranties except as herein stated.



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8 Coverage

160 sq. ft. per 50 lbs. (14.8 M2 /22.68 kg) applied with a 1/4" x 1/4" x 1/4" (6 x 6 x 6 mm) square-notch trowel.

