

MULTISET MODIFIED THIN-SET MORTAR

- Economical mortar for floor, wall and counter top tile installations
- Meets ANSI A118.4
- Mix with MultiSet Admix Concentrate to meet ANSI A118.11 allowing bonds strengths to install over exterior-grade plywood

PRICE



PRODUCT DESCRIPTION

MultiSet Modified Thin-Set Mortar offers good bond strength for tile installations over most surfaces. Apply over concrete, cement backerboards and existing ceramic tile. Meets ANSI A118.4 without the need for additives. Meets ANSI A118.11 when MultiSet Admix Concentrate is added at the required 5:1 mix ratio.

USES — TILE TYPES

- Vitreous, semi-vitreous or absorptive tile: Ceramic, mosaic, quarry, cement, porcelain
- Brick and mini-brick
- Precast terrazzo
- Natural stone

AREAS OF USE

- Interior or exterior floors or countertops
- Concrete, mortar beds, masonry, Portland cement plaster
- Backerboards such as WonderBoard® and EasyBoard®
- Gypsum wall board (dry areas)
- Existing ceramic tile

LIMITATIONS

- Do not bond directly to hardwood, Luan plywood, particle board, parquet, cushion or sponge-back vinyl flooring, metal, fiberglass, plastic and OSB panels.
- When setting moisture sensitive stone, tile or agglomerates (check with manufacturer) use 100% Solids Epoxy Mortar.
- Do not use to install resin-backed stone.
- When setting dimensional stone larger than 12" x 12" (30 x 30 cm), contact Technical Services for recommendations regarding subfloor deflection requirements.

SURFACE PREPARATION

General Surface Preparation:

Surfaces must be structurally sound, clean, dry and free from grease, oil, dirt, curing compounds, sealers, adhesives or any other contaminant that would prevent a good bond. Glossy or painted surfaces must be sanded, stripped and cleaned of waxes, dirt or any contaminants. Ambient temperature, surfaces and materials should be maintained at a temperature above 50° F (10° C) or below 100° F (38° C) for 72 hours.

Cementitious Surfaces:

Concrete or plaster must be fully cured and accept water penetration. Test by sprinkling water on various areas of the substrate. If water penetrates, then a good bond can be achieved. If water beads, surface contaminants are present and loss of adhesion may occur. The contaminants should be removed before installation. Concrete must be free of efflorescence and not subject to hydrostatic pressure. Concrete slabs should have a broomed or brushed finish to enhance the bond. Smooth concrete slabs must be roughened to ensure a good bond.

Backerboards and Underlayments:

Tile backerboards such as WonderBoard® and EasyBoard® are a superior alternative to using a second layer of plywood as a final substrate for tile installation. EasyMat™ is an underlayment that can be used in the same regard. Each provide unique benefits to tile installation but all can be installed over plywood to ensure that maximum bond strengths and performance are achieved. Refer to respective data sheet for installation information.

Existing Ceramic Tile:

For existing well-bonded ceramic tile, mechanically abrade with carborundum stone. Rinse and allow to dry. When sanding we recommend the use of an approved respirator.



Expansion Joints:

Expansion joints, control joints and cold joints should never be bridged with setting material. They must be brought through the tile work and filled with an appropriate elastomeric sealant.

MIXING

Thoroughly mix 6 quarts (5.68 L) clean, cool water and 50 lb. (22.68 kg) bag of powder together to a smooth, paste-like consistency. When setting over exterior grade plywood, use 1 quart (0.95 L) of MultiSet Admix Concentrate and 5 quarts (4.73 L) clean, cool water to meet ANSI A118.11 requirements. Mix by hand or use a low speed (150 - 200 RPM) 1/2" (13 mm) drill. Let slake or stand 5 - 10 minutes, stir again and use. Stir occasionally to keep fluffy, but do not add more water. When properly mixed, troweled ridges will stand with no slump.

APPLICATION

INSTALLATION TO CONFORM TO ANSI A108.5. Use proper sized notched trowel to ensure 100% coverage under tiles. Using flat side of trowel, apply skim coat of mortar to the surface. Apply additional mortar with notched side of trowel held at a 45° angle to the surface, combing in one direction. Press tile firmly into place in a perpendicular motion across ridges, moving back and forth. Perpendicular pressing flattens ridges and closes valleys allowing maximum coverage. With some tile, back buttering is advisable. Adjust tile promptly and beat in with block and rubber mallet. Periodically pull up a tile and check the back to ensure complete coverage with the adhesive. Do not spread more material than can be tiled in 15 minutes or while material has wet tack (sticky to the touch). If material has skinned over (not sticky), recomb with notched trowel. If too dry, remove and replace with fresh material. Material in bucket will remain workable approximately 2 hours.

CURING

Allow to cure for 24 hours before grouting or light traffic, depending upon temperature and humidity. Polyblend® or Prism® SureColor® Grout is recommended.

COVERAGE

SQUARE FOOT COVERAGE PER 50 LB. BAG (SQUARE METER PER 22.68 KG) TROWEL SIZE	COVERAGE
1/4" x 1/4" x 1/4" Square-Notch (6 x 6 x 6 mm)	90 - 100 sq. ft. (8.4 - 9.3 m ²)
1/4" x 3/8" x 1/4" Square-Notch (6 x 9 x 6 mm)	63 - 70 sq. ft. (5.6 - 6.5 m ²)
1/2" x 1/2" x 1/2" Square-Notch (13 x 13 x 13 mm)	45 - 50 sq. ft. (4.2 - 4.6 m ²)
3/4" x 9/16" x 3/8" U-Notch (19 x 14 x 9 mm)	36 - 40 sq. ft. (3.3 - 3.7 m ²)

CLEAN-UP

Clean with water before material dries.

STORAGE

Store in a cool dry area.

SAFETY

Contains Portland cement. Avoid eye contact or prolonged contact with skin. Wash thoroughly after handling. If eye contact occurs, flush with water for 15 minutes and consult a physician. This product contains free silica. Do not breathe dust; wear NIOSH approved respirator.

ORDERING INFORMATION

ITEM CODE	SIZE	COLOR	PACKAGE
MSMG50	50 lb. (22.68 kg)	Gray	Bag
MSMW50	50 lb. (22.68 kg)	White	Bag

TECHNICAL DATA

Meets ANSI A118.4 specifications.

	MULTISET MIXED WITH WATER	MULTISET MIXED WITH THIN-SET ADMIX CONCENTRATE	MULTISET MIXED WITH CUSTOMFLEX®
Pot Life	2 hours	2 hours	4 hours
Open Time	50 - 55 minutes	50 - 55 minutes	50 - 55 minutes
Adjustment Time	30 - 35 minutes	30 - 35 minutes	30 - 35 minutes
Shear Bond @ 28 Days:			
Bisque Tile	300 psi (21 kg/cm ²)	465 psi (32.7 kg/cm ²)	820 psi (57.7 kg/cm ²)
Porcelain Tile	235 psi (16.5 kg/cm ²)	305 psi (21.4 kg/cm ²)	550 psi (38.7 kg/cm ²)
Quarry Tile to Plywood	N/A	200 psi (14.1 kg/cm ²)	290 psi (20.4 kg/cm ²)

LIMITED WARRANTY

Custom Building Products ("Custom") warrants to the original consumer purchaser that its product shall be free from defects in material and workmanship under normal and proper usage for a period of one year following the date of original purchase. Custom's sole liability under this warranty shall be limited to the replacement of the product. Some states do not allow the exclusion or limitation of incidental or consequential damages, so the above limitation or exclusion may not apply to you. This warranty will not extend to any product which has been modified in any way or which has not been used in accordance with Custom's printed instructions. Custom makes no other warranties either express or implied. This warranty gives you specific legal rights, and you may have other rights that vary from state to state.

