



# VISON FLOOR MIX

*Dry Set Mortar For Floors*

**Product Name:** VISON FLOOR MIX

**Manufacturer:** Vison Tech Products LLC

## Product Description

VISON FLOOR MIX is a proprietary blend of Portland cement, sands, and additives to produce an excellent dry set mortar for floor tile installations of low absorption tiles less than 7%.

## Packaging

**COLOR:** Gray or White.

**TEXTURE:** Powder consisting of Portland cement, polymer additives, graded silica sand, organic and inorganic chemicals.

**PACKAGING:** 50 lbs. Multi-wall bags.

## Basic Use:

VISON FLOOR MIX thin-set may be used for setting non-absorptive and semi-vitreous ceramic tiles. It is used in mortar bed from  $\frac{3}{32}$ " to  $\frac{3}{16}$ " after tiles have been properly embedded. VISON FLOOR MIX provides good bond strength for floor tile installations at lower labor and materials cost than Portland cement mortar bed.

## Key Benefits and Features

- Good bond strength for floor tile installations.
- Extended pot life and Excellent working consistency
- Meets ANSI A118.1 specifications
- Meets ANSI A118.4 specifications when mixed with VISON M4 Latex Admixture

## Suitable Tile Types

Vitreous and semi-vitreous tile: ceramic, mosaic, quarry, impervious porcelain, brick and thin brick; cement-based precast terrazzo.

## Limitations

Not for installing green marble, other moisture-sensitive stone tile or resin-backed marble. Not for use over rubber, strip wood floors, oriented strand board, particle board, and lauan plywood. Temperature of area to be tiled must remain above 50°F (10°C) for 72 hours. Certain natural stone tiles may be affected by mortar shadowing or staining.

## Applicable Standards

Meets and exceeds requirements for dry-set mortars found in ANSI A118.1.

## Installation: Mixing

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. In a clean mixing container, add 50 lbs. (22.68 kg) VISON FLOOR MIX thin-set to 1  $\frac{1}{4}$  to 1  $\frac{1}{2}$  gallons (4.7 to 5.7 L) clean, cool water. Mix material to a thick creamy consistency then allow the mortar to stand for 10 minutes, then remix before using.

## General Surface Prep

All surfaces must be dry, structurally sound. Remove all grease, oil, dirt, curing compounds, sealers, adhesives or any other contaminant that would prevent a good bond. Glossy or painted surfaces must be sanded, and stripped of all contaminants. Concrete must be free of efflorescence and not subject to hydrostatic pressure. Concrete slabs should have a coarse finish to enhance the bond. Plywood flooring including those under resilient flooring must be structurally sound and meet all ANSI and deflection requirements. Ambient temperature should be maintained above 50° F (10° C) or below 100° F (38° C) for 72 hours to achieve proper bond.

## Cementitious Substrates

Concrete must be fully cured and must accept water penetration. Contaminants should be mechanically removed before installation. Concrete must be free of efflorescence and not subject to hydrostatic pressure. Concrete slabs should have a coarse finish to enhance the bond. Smooth concrete slabs must be mechanically abraded to achieve proper bond.

## Non-Cementitious Substrates

All non conforming surfaces such as strip wood, old plaster or painted surfaces can be covered with a cleavage membrane topped with a  $\frac{3}{8}$ " -  $\frac{3}{4}$ " (10 - 20 mm) reinforced mortar bed for walls and a 1  $\frac{1}{4}$ " (32 mm) reinforced mortar bed for floors. After a minimum of 20 hrs, the dry-set mortar may be applied to the mortar bed. Plastic laminate shall be sanded and well bonded to its substrate.

## Tile over Tile and Other Surfaces

Surface must be Portland cement bond compatible, the old surface must be well bonded and without waxes, sealer, or coatings. Smooth or slick surfaces will be heavily scratched, scarred, coarse sanded or abraded to provide mechanical bond. VISON FLOOR MIX must mix with M4 Latex Admixture.

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## Expansion Joints

Install expansion joints around all perimeters or restraining surfaces where possible to allow for expansion movement. Expansion joints and cold joints, as described in ANSI A108.01, should never be bridged with setting material. They must be brought through the tile work and filled with an appropriate elastomeric sealant. Contact Vison Tech's Technical Services for the proper treatment of control or saw cut joints. Refer to TCNA EJ171, F125 & F125A.

## Application

Use a properly-sized notch trowel to ensure proper coverage under tiles. Using the flat side of the trowel, apply a skim coat of mortar to the surface. With the notch side of the trowel held at a 45° angle, apply additional mortar to the surface, combing in one direction. Press the tile firmly into place in a perpendicular motion across ridges, moving back and forth. The perpendicular motion flattens ridges and closes valleys, allowing maximum coverage. Tiles with deep patterns, high lugs or those with irregular texture on the back surface may require "back buttering" to ensure 100% coverage of back of tiles. Proper method of bonding of tiles requires embedding, pressing and sliding tiles perpendicular to wet mortar ridges to have a nominal mortar thickness of  $\frac{3}{32}$ " -  $\frac{3}{16}$ " (3 - 5 mm) and 100% coverage. During the setting of tile, it is advisable to occasionally remove a tile to be sure mortar has not skinned over and sufficient transfer is being made. Do not adjust tiles in mortar after they have been set past 10 - 15 min.

## Trowel Recommendation

Smaller tiles will use smaller notched trowels and larger tiles will require larger notched trowel suitable for providing a minimum  $\frac{3}{32}$ " -  $\frac{3}{16}$ " (3 - 5 mm) bed thickness after embedding the tile.

## Coverage

Per 50 lbs. (22.7 kg) bag using a square-notched trowel covers:

$\frac{1}{4}$ " x  $\frac{1}{4}$ " = 77 sq. ft. (7.1 m<sup>2</sup>)

$\frac{1}{4}$ " x  $\frac{3}{8}$ " = 66 sq. ft. (6.1 m<sup>2</sup>)

$\frac{1}{2}$ " x  $\frac{1}{2}$ " = 40 sq. ft. (3.7 m<sup>2</sup>)

## Working Time

Approximately 30 minutes to 1 hour depending on ambient temperature.

## Cleaning

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

## Curing and Grouting

Grouting may be accomplished when tiles are held firmly in place, typically 16 to 24 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 discolorations will not occur.

## Specifications: Technical Data

Test	Requirement	Typical Values
Open time @70°F	-	8 min.
Adjustability @ 70°F	-	10-15 min.
Bucket life @ 70°F	-	5 hrs.
Compressive Strength (PSI) ASTM C-109	N/S	3100
Shear Bond (PSI) ANSI A118.1 Non-Vitreous tile		
7 day	200 minimum	>265
28 days	200 minimum	>289
Vitreous (Paver)		
7 day	200 minimum	>210
28 day	200 minimum	>268

## Storage Life

One year if kept dry in sealed bag.

**KEEP OUT OF REACH OF CHILDREN**

## Warranty

Vison Tech 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. Vison Tech's sole liability under this warranty shall be limited to the replacement of the product. Some states, countries or territories 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 Vison Tech's printed instructions. Vison Tech makes no other warranties either expressed or implied. This warranty gives you specific legal rights, and you may have other rights that vary from state to state or from one country/territory to another.

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