4:1 DRY PACK MORTAR MIX

BASIC USES

For use in preparing mortar bed tile and stone substrates for traditional Wet Set ceramic tile & stone installations, for leveling/buildup of concrete surfaces up to 51 mm (2") thick in preparation for thin-set ceramic tile & stone installations, for use in conjunction with reinforcing mesh and slip sheet for "Floating" Mortar bed applications, or for preparing sloped shower beds and other substrates requiring a positive slope to drain. May be used on interior and exterior surfaces of concrete and concrete block.

This product is designed for preparing mortar bed tile and stone substrates in traditional wet-set ceramic tile and stone installations. It can also be used to level or build up concrete surfaces up to 51 mm (2") thick in preparation for thin-set ceramic tile and stone installations. Additionally, it is suitable for use with reinforcing mesh and slip sheets in "floating" mortar bed applications, as well as for forming sloped shower beds and other substrates requiring a positive slope to drain. It may be applied to both interior and exterior concrete and concrete block surfaces.

COMPOSITION AND MATERIALS

A pre-mixed mortar consisting of high strength Portland cement and specially graded, dried & screened aggregates packaged in dry powder form to be mixed with water, or Flextile 43 or 44 Latex Mortar Additive on Exterior or Water Immersion applications.

FEATURES

- Interior or exterior use.
- Eliminates job-site mixing of sand / cement.
- Easy to tamp, compact, and slope.
- Ensures a consistent mix on large jobs.
- Easy to transport, store, and use on multi-level projects.
- Pre-mixed to a ratio of 4 parts aggregate, 1 part Portland cement. Available in a 3:1 ratio upon Special Order

LIMITATIONS

Use only on surfaces which are maintained at a temperature above 10°C (50°F) and below 35°C (95°F) during application and for at least 72 hours after application. On exterior applications, protect from rain until thoroughly dried and protect from freezing for at least 14 days after installation.

LEED Points Contribution	LEED Points
MR Credit 5, Regional Materials*	Up to 2 points
IEQ Credit 4.3, Low-Emitting Materials – Flooring Systems	1 point

*May be eligible

TECHNICAL DATA at 23°C (73°F) and 50% humidity

Typical Physical Properties

Linear Shrinkage	< 0.20 %
Specific Gravity (dry)	1.42
Specific Gravity (wet)	1.54
pH (paste) approx.	12
Cleanability:	with water before material dries
Shelf Life:	1 year from production date when stored in dry, heated conditions

Compressive Strength @ 28 days (with water) 17.2 MPa (2500 psi)
Compressive Strength @ 28 days (with #43 Latex Additive) 20.7 MPa (3000 psi)

Approx. coverage per 25 kg (55 lb) bag:
@ 1" thickness: 0.54 – 0.63 m^2 (6 – 7 ft^2)

* Coverages given are for estimating purposes only. Actual coverages may vary depending on job site conditions and installation techniques used

VOC FREE

INSTALLATION

PREPARATORY WORK

Surfaces must be sound, even, dry and free of grease, oil, dirt, paint, curing compounds or sealers, or other foreign matter. Concrete surfaces should have a wood float or steel trowel with broom finish. Scarify smooth concrete surfaces, and damp mop to remove dust and residue. Refer to current editions of TTMAC 09 30 00 Tile Installation Manual, TCNA Handbook for Ceramic Tile Installation for information regarding placement/accommodation of/for movement joints, or for further substrate acceptability information.

APPLICATION

Mix Dry Pack Mortar with cool, potable water or Flextile 43 or 44 Latex Mortar Additive to a stiff, semi-dry consistency (approx. 12% Water, or 14% - Latex Mortar Additive). Just prior to placing Dry Pack Mortar, apply a slurry bond coat of 57 Scratch Coat or 53 Floor Mix Mortar mixed with 43 Latex Mortar Additive to substrate. Place Dry Pack Mortar while the slurry bond coat is still wet, and compact well. If installing Dry Pack Mortar in a shower receptor, steam room, pool, or other wet area where a waterproof membrane is used, slope to drain at 20 mm/M (1/4"/ft). If installing as a thick bed leveling coat, surface variation should not exceed 6 mm in 3049 mm (1/4" in 10'), or follow Floor Flatness (FF) and Floor Levelness FL) requirements as shown in the current editions of the TTMAC 09 30 00 Specification Guide or TCNA Installation Manual. When installing mortar beds requiring reinforcing, ensure that wire reinforcing is placed in the center of the mortar bed. Do not cover existing movement joints. Refer to TTMAC detail 301MJ-2025 or TCNA EJ171 for movement joint procedures. If installing tile onto wet mortar bed, apply a slurry bond coat of neat Portland cement, or appropriate Flextile one or two-component Latex Portland Cement Mortar, and beat in well to achieve required coverage. If installing on a cured mortar bed, use the Flextile Latex Portland Cement Mortar that is most appropriate for the tile/stone being installed.

CURING

On interior room temperature applications allow mortar or leveling bed to cure for at least 24 hours (preferably longer) prior to installing tile or membrane products on cured mortar bed. On exterior applications, keep dry and protect from freezing temperatures for at least 72 hours (preferably longer) prior to installing tile. If modified with a latex additive, keep dry and protect from freezing temperatures for at least 7 days prior to installing tile. Protect completed tile/stone installation from excessive moisture and freezing until fully cured, or as specified on tile bond coat TDS.

CAUTION

Freshly mixed cement, mortar, concrete or grout may cause skin injury. Avoid extended contact with skin where possible and wash exposed skin areas promptly with water. If any cement or cement mixtures get into the eye, rinse immediately and repeatedly with water and get prompt medical attention. Keep out of reach of children.

SAFETY

Refer to Flextile Safety Data Sheet for detailed health and safety information.

AVAILABILITY

Flextile Dry Pack Mortar is available from Flextile Ltd. and its distributors in 25 kg (55 lb) bags.

WARRANTY

Flextile warrants that this product is of merchantable quality and is suitable for the purpose for which it is intended. Flextile's liability under this warranty shall be limited to the replacement of its product found to be defective or, at its option, a refund of the purchase price.

MAINTENANCE

No maintenance is required except where damages result from unforeseen circumstances. Repair procedures shall be directed by Flextile or its distributors.

TECHNICAL SERVICES

Flextile maintains a well-equipped laboratory able to test its products in conjunction with the products with which they are used. Technical assistance for use of Flextile products is available upon request.

RELATED REFERENCES

Current editions of TTMAC 09 30 00 & TCNA Ceramic Tile Installation Manuals.

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