



735 Premium Flex

Superior Grade Flexible Multipurpose
Polymer Modified Portland Cement EGP Thin Set Mortar

2. Manufacturer

Parex USA, Inc.
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3. Product Description

BASIC USE: Merkrete 735 Premium Flex is a Superior grade (EGP) Latex Portland Cement flexible multipurpose thin set mortar with superior features like flexibility, higher strengths, extended adjustability and open times. 735 Premium Flex is specifically formulated to install ceramic tile, porcelain tile, and natural stone, interior or exterior to a variety of substrates.

Uses: 735 Premium Flex can be used as a thin set mortar for ceramic tile and natural stone for both walls and floors in interior and exterior applications. It is recommended for use in the thin set installation method for absorptive, semi-vitreous and vitreous tile over properly prepared masonry, concrete, cement backer board, and existing ceramic tile. In interior dry areas, it is suitable for gypsum board and plywood substrates. In interior dry areas only, it can also be suitable for well bonded cutback adhesive and vinyl composition flooring, excluding cushioned backed. It is used as a thin set from 3/32" to 3/16" (2.4 to 4.8 mm) after the tiles have been properly beat in. 735 Premium Flex is suitable for both residential and commercial construction.

Advantages

- Freeze thaw stable
- Interior and exterior
- Bonds to most surfaces
- Available in both gray and white colors. Exceeds ANSI A118.4 for latex portland cement mortar and A118.11 for EGP latex portland cement mortar

Suitable Substrates

- | | | |
|------------------------------------|---------------------------------------|--|
| • Brick masonry | • Ceramic tile and stone | • Gypsum wallboard ³ |
| • Cement backer board ¹ | • Concrete | • Post tension |
| • Cement mortar beds | • Concrete masonry | • Merkrete waterproofing/crack isolation membranes |
| • Cement plaster | • Cutback adhesive ² | • Vinyl composition flooring ² |
| • Cement terrazzo | • Exterior grade plywood ³ | |

¹ Consult cement backer board manufacturer for installation recommendations and to verify acceptability for exterior use

² Remove as much Cutback adhesive as possible, apply 626 Primer. If a Crack Isolation is needed use Fracture Guard 5000 or Fracture Guard FD

³ Interior use only

4. Technical Data

Applicable Standards: Merkrete 735 Premium Flex meets or exceeds industry requirements ANSI A118.4 for latex portland cement mortar and ANSI A118.11 for EGP latex portland cement mortar. Follow ANSI A108.5 for installation.



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Properties:

ANSI 118.4	ANSI Requirements	735 Premium Flex Results
Open Time at 70° F	> 50 minutes	> 65 minutes
Glazed Wall Tile, 28 day shear	> 300 psi	> 700 psi
Impervious Mosaic, 12 week shear	> 200 psi	> 460 psi
Quarry Tile, 12 week shear	> 150 psi	> 460 psi
LEED v3 NC VOC	EQ Credit 4.1	735 Premium Flex Results
VOC	< 65 g/l	0 g/l

Packaging: 50 lb. bag (22.7 kg) 48 bags per pallet | Colors: Gray and White

Shelf Life: Reference Parex USA Expiration Date of Products Technical Bulletin.

5. Installation

Surface Preparation: All surfaces must be between 40° F (4° C) to 95° F (35° C) and structurally sound (deflection not to exceed 1/360 of the span), dry clean and free from oil, grease, wax, paint, old adhesives, sealers and curing compounds. Any contaminates which inhibit proper bond must be removed. Substrate preparation should be completed following ANSI A108 AN-2 "General Requirements for Sub-surfaces." All substrates should be plumb and true, surface deviation should not exceed 1/4" in 10'. Patching, leveling or areas requiring a mortar bed should be prepared using Merkrete's Underlayments. Movement (expansion) joints should be provided to comply with TCA method EJ 171.

Substrates

Plywood Substrates: Maximum joist spacing should be 16" on center. Plywood should be exterior grade only. Maintain a gap of 3/16" between plywood underlayment sheets edges and all that abut walls, columns, posts and adjacent sheets. All plywood installations should be interior areas only and protected from exposure to moisture.

Cement Substrates: All concrete substrates should be cured a minimum of 28 days. Smooth steel troweled floors should be roughed up using mechanical chipping, scraping or shot blasting. Dampen porous or dry concrete previous to installation of tile. Do not leave puddles or standing water.

Cement Backer Board: Follow cement board manufacturer's instructions.

Mixing: In a clean container, add approximately 5.5 quarts (5.2 liters) of clean potable water. Then add the contents of the 50 lb. (22.7 kg.) 735 Premium Flex mortar. Mix thoroughly by hand or with a slow speed mixer to a smooth, thick, trowelable consistency. Allow mortar to slake for approximately 15 minutes, and then remix before using. Remix without adding additional water or powder. Mortar consistency shall be such that when applied with the recommended notched trowel to the substrate, the ridges formed in the mortar do not flow or slump. During use, stir mortar mix occasionally. Do not temper with additional water.

Application: Apply mortar to the substrate with the flat side of the trowel, with enough pressure to firmly work into the surface. With a notched trowel, immediately follow with a heavier coat of material using the appropriate trowel and enough mortar to provide 100% coverage to the back of the tile. Some extruded or lug back tiles back-buttering of tiles may be required. Do not spread more mortar than can be covered in 20 minutes or before the mortar skins over. It is advised that during the installation, remove a tile to insure the mortar has not skinned over and check the tile and substrate mortar coverage. Comb the mortar using an appropriate notched trowel in one direction. Place tiles in mortar, slide back and forth perpendicular to the ridges to insure proper coverage. Do not adjust tiles set in mortar after 15 minutes.




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Limitations: Do not use 735 Premium Flex below 40° F (4° C) or above 95° F (35° C). Use caution; do not allow mortar to freeze for the first 72 hours. Do not soak tiles previous to installation. 735 Premium Flex must not be used to apply over asphalt sheeting, vinyl covered wall board, Masonite®, cement asbestos board, metal, glass, plastic, gypsum mortar beds or other unstable substrates. Improperly cured or wet plywood, particle board or strip wood are not suitable substrates. Installations that will be continually wet like swimming pools, fountains and gang showers, the completed installation should be cured a minimum of 14 days and allowed to dry before exposure to water. For white or light colored marbles use 735 Premium Flex White mortar. Some dimensional stone tile like resin backed, black, green and red marbles may warp when installed with water based setting materials. These water sensitive stone tiles should be installed with Merkrete Pro Epoxy. For use of 735 Premium Flex over additional substrates or situations not mentioned in these instructions, contact Merkrete Technical Services.

Cleaning: Water is all that is needed to remove any uncured mortar from tiles, tools and equipment.

Coverage:

RECOMMENDED NOTCH SIZE		
		
1/4" x 1/4" 6 mm x 6 mm	1/4" x 3/8" 6 mm x 10 mm	1/2" x 1/2" 12 mm x 12 mm
Ceramics	Quarry Tile, Rough Stone	Large Tile, Marble, Stone
APPROXIMATE COVERAGES		
65 – 75 Ft ² 6.0 – 6.9 m ²	55 – 65 Ft ² 5.1 – 6.0 m ²	35 – 45 Ft ² 3.2 – 4.2 m ²

* Coverage depends on trowel notch size, substrate and job conditions

6. Availability

Merkrete 735 Premium Flex is available at leading tile houses and construction distributors. Contact Merkrete or visit our web site for the name of the nearest dealer.

7. Warranty

5 year, 10 year and Limited Lifetime warranties are available. Contact Merkrete Technical Services or visit our web site for specific warranty information. Merkrete warrants that this product meets applicable ANSI standards in force at the time of manufacture.

8. Maintenance

None required, but installation performance and durability may depend on properly maintaining products supplied by other manufacturers.

9. Technical Services

Merkrete Systems maintains technical field representatives available throughout the country. Call Technical Services at 800-226-2424 for the nearest representative.

10. Filing Systems

Merkrete architectural product information available either in catalog form, or electronically on our website at www.merkrete.com.

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SUSTAINABILITY

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