



700 PREMIUM SET

PROFESSIONAL-GRADE PORTLAND CEMENT
THINSET MORTAR

- Freeze-thaw stable
- Interior and exterior
- Bonds to most surfaces
- Available in gray and white colors
- Exceeds ANSI A118.1 for Portland cement mortar
- Exceeds ANSI 118.4 and A118.11 (EGP) for polymer-modified Portland cement mortar when mixed with Merkrete 150 Latex or 200 Latex additives



1. Product Name

700 Premium Set

2. Manufacturer

Parex USA, Inc.

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3. Product Description

Basic Use

Merkrete 700 Premium Set is a professional-grade Portland cement thinset mortar for installing ceramic tile, quarry tile, pavers and dimensionally stable natural stone. It is recommended for use in the thinset installation method for absorptive and semi-vitreous tile over properly prepared masonry, concrete and cement backer board. In dry areas, it is suitable for gypsum board.

Uses

700 Premium Set is used as a thinset mortar for ceramic tile and natural stone for walls and floors in interior and exterior applications. It is used as a thinset from $\frac{3}{32}$ " to $\frac{3}{16}$ " (2.4 to 4.8 mm) after the tiles have been

properly beat in. 700 Premium Set is suitable for both residential and light commercial construction. When mixed with Merkrete 150 Latex or 200 Latex additive, 700 Premium Set can be used in the thinset installation method for porcelain, 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 exterior-grade plywood substrates.

Suitable Substrates

- Brick masonry
- Cement backer board¹
- Cement mortar beds
- Cement plaster
- Cement terrazzo
- Ceramic tile and stone²
- Concrete
- Concrete masonry
- Exterior-grade plywood²
- Gypsum wallboard³
- Merkrete waterproofing/crack isolation membranes²

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

² When mixed with Merkrete 150 Latex or 200 Latex

³ Interior use only



4. Technical Data

Applicable Standards: Merkrete 700 Premium Set meets or exceeds industry requirements ANSI A118.1 for portland cement mortar. Follow ANSI A108.5 for installation.

PROPERTIES		
ANSI 118.4	ANSI Requirements	700 Premium Set Results
Open Time at 70° F	> 50 minutes	> 65 minutes
Glazed Wall Tile, 12-week shear	> 250 psi	>340 psi
Impervious Mosaic, 28-day shear	> 150 psi	>170 psi
Quarry Tile, 12-week shear	> 100 psi	>240 psi
LEED v3 NC VOC	EQ Credit 4.1	700 Premium Set Results
VOC	< 65 g/l	<0 g/l

Packaging

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

Shelf Life

Reference Parax 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 contaminants that 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 underayment. Movement (expansion) joints should be provided to comply with TCA method EJ 171.

Substrates

Plywood Substrates: (Latex additive required during mixing.) Maximum joist spacing should be 16" on center. Plywood should be exterior grade only. Maintain a gap of 3/16" between plywood underayment sheet 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 prior 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 quarts (4.7 liters) of clean potable water (or Merkrete Latex additives). Then add the contents of the 50-

lb. (22.7-kg) 700 Premium Set 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. Remix before using without adding more 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 using enough pressure to firmly work into the surface. With a notched trowel, immediately follow with a heavier coat of material using enough mortar to provide 100% coverage to the back of the tile. For 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 ensure the mortar has not skinned over and to check 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 ensure proper coverage. Do not adjust tiles set in mortar after 15 minutes.

Limitations

Do not use 700 Premium Set below 40° F (4° C) or above 95° F (35° C). Use caution to not allow mortar to freeze for the first 72 hours. Do not soak prior to installation. 700 Premium Set 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. When latex admixtures is used in 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 700 Premium Set white mortar. Some dimensional stone tile like resin-backed, black, green and red marbles may warp when installed with water- or latex-based setting materials. These water-sensitive stone tiles should be installed with Merkrete Pro Epoxy. For use of 700 Premium Set over other substrates or for 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 sq. ft. 6.0 – 6.9 m ²	55 – 65 sq. ft. 5.1 – 6.0 m ²	35 – 45 sq. ft. 3.2 – 4.2 m ²



6. Availability

Merkrete 700 Premium Set is available at leading tile houses and construction distributors. Contact Merkrete or visit our website for the name of the nearest dealer at www.merkrete.com.

7. Warranty

5-year, 10-year and Limited Lifetime warranties are available. Contact Merkrete Technical Services or visit our website 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. Literature

For the most up-to-date technical information (details, submittals, SDSs or data sheets), refer to our websites www.parexusa.com or www.merkrete.com.



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