

MERKRETE

150 Latex Admixture

Thin Set, Grout and Underlayment Admixture

2. Manufacturer

Parex USA, Inc.
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Anaheim, CA 92807
866-516-0061
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3. Product Description

BASIC USE: Merkrete 150 Latex Admixture is a compounded and stabilized latex additive used to improve bond strength, water resistance, compressive strength and other physical properties of cement/sand mixes as well as grouts. 150 Latex is also used in conjunction with Underlay M filler to form thick bed mortars.

Uses: A liquid additive for thin set, portland cement mortar mixes, underlayments for resilient flooring, thick bed mortars, leveling beds for ceramic tile and terrazzo and other applications where bonding is difficult.

Advantages

- Improved adhesion to both old and new surfaces
- Reduces cracking and spalling of tile grout joints
- Improved resilience for thermal movement
- Reduced absorption of grout joints
- Improved resistance to water infiltration

4. Technical Data

Applicable Standards: Merkrete's 700 Premium Set meets or exceeds industry requirements ANSI A118.1 for dry set portland cement mortar. When mixed with Merkrete 150 Latex Admixture meets ANSI A118.4 for latex portland cement mortar. Follow ANSI A108.5 for installation.

Properties:

Physical & Technical Data	150 Admixture mixed in 700 Premium Set
Bond Strength (shear)	> 350 psi
Compressive Strength	> 4000 psi
Water Absorption	< 4%
LEED v3 NC VOC	EQ Credit 4.1
VOC	<1 g/l

Packaging:

1 gal. bottle (3.78 l.)
2.5 gal. bottle (9.40 l.)
5 gal. pail (18.92 l.)

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

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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 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

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 quarts (4.7 liters) of 150 Latex Admixture. Then add the contents of the 50 lb. (22.7 kg.) 700 Premium Set or other non-modified thin 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, 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. Thin mortar bed applications usually require 4 – 5 gallons of 150 Latex Admixture for each 100 lb. sack of cement. Thick bed installations will require less liquid to make a trowelable mix. For these drier mixes, apply wet slurry of 150 Latex Admixture and neat cement just prior to application to insure a good bond.

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. 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 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.

Limitations: Do not use Merkrete 150 Latex Admixture 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 prior to installation. Merkrete 150 Latex Admixture mixed thin 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. 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 marble use Merkrete 150 Latex Admixture mixed with white thin set mortar. Some dimensional stone tile like resin-backed, black, green and red marble may warp when installed with water-based setting materials. These water-sensitive stone tiles should be installed with Merkrete Pro Epoxy. For use of Merkrete 150 Latex Admixture mixed thin set 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.

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6. Availability

Merkrete 150 Latex Admixture is available at leading tile houses and construction distributors. Contact Merkrete or visit our web site 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 web site for specific warranty information. Merkrete Systems 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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