

Mer-Krete™ 501 ClassicSet

PROFESSIONAL GRADE PORTLAND CEMENT THIN-SET MORTAR

1. PRODUCT NAME

501 ClassicSet

Professional Grade Portland Cement Thin Set Mortar

2. MANUFACTURER

Mer-Krete Systems
501 Van Ness Avenue
Torrance, CA 90501
PH (323) 775-2461
FAX (310) 320-4938
(800) 851-6303
www.merkrete.com

3. PRODUCT DESCRIPTION

BASIC USE

Mer-Krete's 501 ClassicSet is a professional grade Portland cement thin-set mortar for installing ceramic tile and natural stone. It is designed for interior and exterior applications requiring greater strength and increased open time. It is recommended for use in the thin set installation method for absorptive, semi-vitreous and vitreous tile over properly prepared masonry, concrete, and cement backer board**. In dry areas, it is suitable for gypsum board.

USES

Mer-Krete 501 ClassicSet 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, vitreous* tile and impervious* ceramic tile such as porcelain tile and natural stone 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. **501 ClassicSet** is suitable for both residential and commercial construction.

ADVANTAGES

Interior and Exterior*
Good adjustability and open times
Available in both gray and white colors
Excellent for arid and hot climate installations
Exceeds ANSI A118.1 for Dry Set Portland Cement Mortar and A118.4 for Latex Portland Cement Mortar when mixed with **Mer-Krete 150 Acrylic Latex** or **442 Tuff-Flex** admixture.

*In freeze thaw areas the **501 ClassicSet** must be mixed using the **Mer-Krete 150 Acrylic Latex** or **442 Tuff-Flex** admixture.

SUITABLE SUBSTRATES

Concrete	Concrete Masonry
Cement Mortar Beds	Cement Plaster
Ceramic Tile and Stone	Brick Masonry
Cement Backer Board**	Cement Terrazzo
Gypsum Wallboard*	

*Interior Use Only

** When mixed with **150 Acrylic Latex** or **442 Tuff-Flex** admixture. Consult cement backer board manufacturer for installation recommendations and to verify acceptability for exterior use.

LIMITATIONS

Do not use **501 ClassicSet** 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. **501 ClassicSet** 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. 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

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Mer-Krete 501 ClassicSet Test DATA ANSI A 118.1		
TEST	EVALUATION	ANSI STANDARD
Initial Set @ 100° F	1.1 hrs	> than 1 Hour
Final Set	10 hrs	> than 9 Hour
Open Time @ 73° F	>65 min.	50 min. or more
Open Time @ 110° F	20 min.	20 min. or more
Adjustability @ 73° F	>35 min.	30 min. or more
Adjustability @ 110° F	>15 min.	10 min. or more
Sag	1/64 inch	< 1/16 inch
SHEAR BOND		ANSI STANDARD
Glazed Wall Tile	7 day, 273 psi	> 200 psi
Glazed Wall Tile	12 wk, 342 psi	> 250 psi
Impervious Mosaic	7 day, 163 psi	> 150 psi
Impervious Mosaic	28 day, 172 psi	> 150 psi
Quarry Tile	7 day, 197 psi	> 50 psi
Quarry Tile	28 day, 228 psi	> 100 psi
Compressive Strength	3312 psi	Not < 2500 psi

TECHNICAL ASSISTANCE:

Specification assistance is highly recommended prior to a proposed installation. Contact any Mer-Krete technical representative for recommendations over existing substrates or problem areas.



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to water. *When using **501 ClassicSet** for vitreous tile and impervious ceramic tile such as porcelain tile and mosaics, Mer-Krete recommends **Mer-Krete 150 Acrylic Latex** or **442 Tuff-Flex** as a direct replacement for water. For white or light colored marbles use **501 ClassicSet** White mortar. Some dimensional stone tile like green and red marbles may warp when installed with water based setting materials. These water sensitive stone tiles should be installed with **Mer-Krete's ProEpoxy**. For use of **501 ClassicSet** over additional substrates or situations not mentioned in these instructions, contact Mer-Krete's Technical department.

4. TECHNICAL INFORMATION

APPLICABLE STANDARDS

501 ClassicSet exceeds industry requirements ANSI A118.1 for Dry Set Portland Cement Mortar and A118.4 for Latex Portland Cement Mortar when mixed with **Mer-Krete 150 Acrylic Latex** or **442 Tuff-Flex** admixture. Follow TCA Handbook and ANSI A108.5 for installation.

COLORS

No color options.

PACKAGING

50 lb. (22.7 kg.) bag

5. INSTALLATION

SURFACE PREPERATION

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 1/2" in 10'. Movement (Expansion) joints should be provided to comply with TCA method EJ 171.

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 9 Pints (4.3 liters) of clean potable water or **Mer-Krete 150 Acrylic Latex** or **442 Tuff-Flex** admixture. Then add the contents of the 50 lb. (22.7 kg) **501 ClassicSet** mortar. Note: For improved bond strength, flexibility, exterior installations and vitrified tile like porcelain use **Mer-Krete 442 Tuff-Flex** admixture in lieu of water. 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, latex admixture 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 admixture or 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 then 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.

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Place tiles in mortar, slide back and forth perpendicular to the ridges (NTCA "Trowel and Error" method) to insure proper coverage. Do not adjust tiles set in mortar after 15 minutes.

CLEANING

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

6. AVAILABILITY

Mer-Krete 501 ClassicSet is available at leading tile houses and construction distributors. Contact Mer-Krete for the name of the nearest dealer.

7. WARRANTY

5 year, 10 year and Limited Lifetime warranties are available. Contact Mer-Krete technical department for specific warranty information. Mer-Krete Systems warrants that this product meets applicable ANSI standards in force at the time of manufacture. Mer-Krete will replace any product which proves defective due to quality of ingredients used or due to the manufacturing process itself. The warranty shall apply only if the product is installed and used strictly in accordance with applicable industry standards, specifications, and instructions provided by Mer-Krete. Mer-Krete shall not be liable for misapplication, misuse or abuse of the product, application or other event outside of its control. Replacement of defective product or, at Mer-Krete's option, refund of the price of product of any defective item shall be the buyer's sole remedy under this warranty. Mer-Krete shall in no event be liable for any damages in excess of the purchase price of the defective product. MER-KRETE SHALL IN NO EVENT BE LIABLE FOR ANY CONSEQUENTIAL, INCIDENTAL OR SPECIAL DAMAGES.

This warranty constitutes the sole and exclusive warranty given by Mer-Krete Systems in connection with this product, and Mer-Krete Systems has authorized no person to make or give any other warranties, or representations, oral or written, on its behalf. IN PARTICULAR, THERE ARE NO IMPLIED WARRANTIES, INCLUDING WITHOUT EXCEPTION, WARRANTIES, MERCHANTABILITY OR FITNESS FOR A PARTICULAR PURPOSE. No modification of this warranty in favor of any buyer shall be valid unless given in writing and signed by an officer of Mer-Krete Systems.

8. MAINTENANCE

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

9. TECHNICAL SERVICES

Mer-Krete Systems maintains technical field representatives available throughout the country. Call (800) 851-6303 for the nearest representative.

10. FILING SYSTEMS

Mer-Krete Architectural Product Catalog and CD ROM
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