



Ditra-Set™

PORTLAND CEMENT THIN SET AND LARGE AND HEAVY TILE MORTAR FOR SCHLUTER®-DITRA® AND SCHLUTER®-KERDI® UNCOUPLING AND WATERPROOFING MEMBRANES

TECHNICAL DATA SHEET 07/02/2024

KEY FEATURES

- For interior or exterior installations in conjunction with Schluter®-Ditra® and Schluter®-Kerdi® uncoupling and waterproofing membranes
- Exceeds ANSI A118.1 when mixed with water
- Recommended for use with porcelain and large format tiles over uncoupling membranes

DESCRIPTION

Bostik Ditra-Set™ is composed of select, proprietary chemicals, carefully graded aggregates and purified cements. It provides outstanding workability, excellent durability, significant leveling characteristics and superior bond strengths in interior and exterior applications when used in conjunction with the Schluter®-DITRA® uncoupling membrane and Schluter®-KERDI® waterproofing membrane. Use Bostik Ditra-Set™ to install the membranes over substrates approved by Schluter®-Systems and to set ceramic, porcelain, and stone tile over Schluter®-DITRA® and Schluter®-KERDI®.

DIRECTIONS FOR USE

Read and understand technical and safety data sheets completely, and any applicable Schluter®-Systems literature, including the Schluter®-DITRA® Installation Handbook, before beginning installation. Contact Schluter®-Systems with any questions regarding construction of the tile assembly. Follow applicable ANSI, NTCA and TCNA installation standards. Refer to www.bostik-us.com for the most recent product information and safety data sheet prior to installation.

SURFACE PREPARATION

All surfaces must be structurally sound, clean, free of dust, dirt, oil, grease, water, curing compounds, sealers, waxes or any contaminants that may inhibit proper bond. TCNA recommends roughing or scarifying glazed tile substrates. Any leveling or sloping must be done prior to installation of Schluter®-DITRA® and Schluter®-KERDI®.

NOTE: It is the user's responsibility to determine the condition and suitability of all surfaces before application.



MIXING

Using a slow speed mixer (<150 rpm), mix 5 to 6 quarts of clean potable water, Bostik 425™ Multi-Purpose Acrylic Admixture, or Bostik Flex-A-Lastic® Admixture to 50 lbs. of Bostik Ditra-Set™. Mix to creamy consistency. Do not re-temper by adding more liquid. No slake required.

APPLICATION

Temperatures must be between 50°F (10°C) - 100°F (0°C) during installation.

Schluter®-DITRA® Installation: For plywood substrates, mix with Bostik 425™ Multi-Purpose Acrylic Admixture or Bostik Flex-a-Lastic® Admixture. Apply a thin coat of Bostik Ditra-Set™ to the substrate with the flat edge of trowel to achieve a good mechanical bond to the substrate. Comb additional mortar with the DITRA trowel which features a 11/64" x 11/64" square-notched design or with a 1/4" x 3/16" or 5/16" x 5/16" V-notched trowel. Apply mortar to

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an area no greater than to which Schluter®-DITRA® can be installed in 20 to 30 minutes. If any evidence of skinning or setting occurs, remove and replace with fresh mortar. Apply DITRA® to the floor, fleece side down. Work DITRA into the mortar, using a float or screed trowel in such a way that the fleece of the DITRA® is solidly embedded in the bonding mortar throughout its entire surface. Periodically, lift up a corner of the DITRA to check the fleece for full coverage.

Schluter®-KERDI® Installation: For drywall, cement backer board, concrete, or masonry substrates, mix with water only.

Apply a thin coat of Bostik Ditra-Set™ to the substrate with the flat edge of trowel to achieve a good mechanical bond to the substrate. Comb additional mortar with the KERDI-TROWEL or a 1/4" x 3/16" V-notched trowel. Apply mortar to an area no greater than to which Schluter®-KERDI® can be installed in 20 to 30 minutes. If any evidence of skinning or setting occurs, remove and replace with fresh mortar.

Apply KERDI® to the substrate and work the membrane into the mortar with the flat side of the trowel to ensure proper adhesion and to remove air pockets. Periodically, lift up a corner of the KERDI® to check the fleece for full coverage.

Tile Installation: Mix with water only for installation of ceramic, porcelain or stone tiles over Schluter®-DITRA® and Schluter®-KERDI®. Do not use to set moisture sensitive stone (e.g., green marble). Over Schluter®-DITRA®, apply a coat of Ditra-Set™ with the flat edge of the trowel to completely fill the cavities on the surface of the membrane and achieve a mechanical bond to the membrane. Over Schluter®-KERDI®, apply a thin coat of Bostik Ditra-Set™ with the flat edge of trowel to fully engage the fleece and achieve a mechanical bond to the membrane. Comb additional mortar over the surface using a trowel that is appropriate for the size of the tile.

Apply mortar to an area no greater than to which tile can be installed in 20 to 30 minutes. If any evidence of skinning or setting occurs, remove and replace with fresh mortar.

Apply tile using a twisting motion into a fresh bed of mortar to ensure maximum contact and bond. Periodically check back of tile to ensure proper transfer (interior applications: minimum 80% coverage; exterior or wet applications: minimum 95% coverage). It may be necessary to back-butter the tile to meet these requirements. A finished mortar bed thickness of 1/8" to 3/4" is required.

CLEANUP

Clean all tools and equipment with soap and water. Do not allow material to dry on surface of tile.

CURING

Keep all foot traffic off the installation until tile is firmly set (approximately 12 hours). Set times are dependent upon temperature, humidity, porosity of substrate and tile size.

GROUTING

Depending on ambient, slab, and material temperatures, grouting can generally begin after 8-12 hours with most Bostik grouting systems. Allow 48 hours before grouting with any Bostik EzPoxy™ or any 100% solids epoxy grout. Allow 24-48 hours before grouting with Bostik pre-mixed grouts.

LIMITATIONS

- Do not use for installing moisture sensitive stones (e.g., green marble) or resin-backed tiles.
- Tile assembly shall be installed according to the most recently published Schluter®-Systems literature, including the Schluter®-DITRA Installation Handbook, Schluter®-Shower System Installation Handbook, and applicable industry standard guidelines.

LIMITATIONS WHEN DITRA® OR KERDI® IS NOT USED

- Deflection must not exceed L/360.
- Natural stone such as marble, limestone, granite and travertine may not tolerate deflection in excess of L/720. Refer to the Marble Institute of America Design Manual for details on specific types of stone.
- Do not apply over particleboard, Masonite, luan or similar unstable substrates.
- Do not apply over directly over approved plywood sub floors, waterproofing or crack isolation membranes such as Bostik Ultra-Set Advanced or Bostik GoldPlus unless the mortar has been mixed with 100% Bostik 425™ Multi-Purpose Acrylic Latex Admixture or Bostik Flex-A-Lastic®.
- Follow TCNA specifications for surface preparation and tile installation.
- Do not use where hydrostatic pressure can occur. Wash tools immediately with water.

PACKAGING

50 lb. bags, white and gray formulations

STORAGE/SHELF LIFE

Store in a clean, dry area, off the ground on a pallet, not affected by freezing or hot temperatures. Shelf life is one year from date of manufacturing in unopened bags.

VOC

0 g/L (as calculated per SCAQMD 1168)

WARNING

CORROSIVE WHEN WET. MAY CAUSE BURNS. IRRITATING TO SKIN, EYES AND RESPIRATORY TRACT. MAY CAUSE CANCER. Do not breathe dust. Do not get in eyes, on skin or on clothing. Do not swallow. Handle with care. Use only in a well ventilated area or wear a mask. Wear protective clothing including gloves during handling. Wash thoroughly after handling. Store bag in a cool, dry area. Do not reuse bag.

KEEP OUT OF REACH OF CHILDREN

FIRST AID TREATMENT

Contains Portland Cement, Gypsum and Quartz Silica. If in eyes or on skin, rinse with water for at least 15 minutes. If on clothes, remove clothing. If breathed in, move person to fresh air. If swallowed, call a Poison Control Center or doctor immediately. Do not induce vomiting.

SEE SAFETY DATA SHEET

Chemical Emergency: 800-424-9300 (USA), 703-527-3887 (International)

Medical Emergency: 866-767-5089

TYPICAL PHYSICAL PROPERTIES





Open Time at 70°F (21.1°C)	20-30 minutes
Adjustment Time at 70°F	10 minutes
Pot Life at 70°F (21.1°C)	2 hours
Initial Set at 70°F (21.1°C)	6-8 hours
Final Set at 70°F (21.1°C)	8-10 hours

Exceeds ANSI 118.1 requirements



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RECOMMENDED TROWELS FOR MAXIMUM PERFORMANCE

Schluter®-DITRA® or Schluter®-KERDI® to substrate Coverage 150-200 ft ²	To bond tile to Schluter®-DITRA® Coverage 40-50 ft ²	To bond tile to Schluter®-KERDI® Coverage 50-60 ft ²	12" x 12" and larger Ceramic Tiles Coverage 30-35 ft ²
 <p data-bbox="289 415 397 441">1/4" x 3/16"</p>	 <p data-bbox="613 415 706 441">1/4" x 3/8"</p>	 <p data-bbox="938 415 1031 441">1/4" x 3/8"</p>	 <p data-bbox="1247 415 1339 441">1/2" x 1/2"</p>

Trowel size is suggested to maximize mortar transfer/coverage. Periodically check coverage during installation. Uneven substrate may require the use of either a leveling/patching material, or larger notched trowel for proper mortar coverage. To bond Schluter®-DITRA® or Schluter®-KERDI® to the substrate: Use one 50-lb. (22.7-kg) bag of mortar per 150 – 200 ft² (13.9 – 18.6 m²). To bond tile to Schluter®-DITRA® (using a 1/4" x 3/8" square - or U-notched trowel): Use one 50-lb. (22.7-kg) bag of mortar per 40 – 50 ft² (3.7 – 4.6 m²). To bond tile to Schluter®-KERDI® (using a 1/4" x 3/8" square - or U-notched trowel): Use one 50-lb. (22.7-kg) bag of mortar per 50 – 60 ft² (4.6 – 5.6 m²). Larger tiles may require a larger trowel such as a 1/2" x 1/2" or a 3/4" U-notch to achieve adequate transfer. (Use one 50 lb. (22.7 kg) bag of mortar per 30-35 ft² (2.8 – 3.3 m²)).

*Coverages shown are approximate and are given for estimating purposes only. Actual job-site coverages will vary according to trowel size, tile size and thickness, job conditions, and setting practices.

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