TechCrete
Waterproofing System

Waterstop Strip

TechCrete® Waterstop Strip is a hydrophilic strip waterstop designed to stop water infiltration through cast-in-place concrete construction joints by expanding upon contact with water to form a positive seal against the concrete. TechCrete Waterstop Strip is designed to be used in the TechCrete 2500 Waterproofing System on new construction projects.

The key to TechCrete Waterstop Strip effectiveness is its superior expansion to seal and fill voids and cracks in the concrete. TechCrete Waterstop Strip is an active bentonite/butyl-rubber based waterstop that is designed to replace passive PVC/rubber dumbbell waterstops, thereby eliminating the requirement of special pieces, split-forming and seam welding. TechCrete Waterstop Strip has been successfully tested by independent testing firms to over 60 meters (200 feet) of hydrostatic water pressure, under both continuous immersion and wet/dry cycling.

TechCrete Waterstop Strip is available in three sizes. 3/4" x 1", 1/2" x 1.25" and 3/8" x 3/4".

Though TechCrete Waterstop Strip possesses good resistance to many chemicals, the waterstop is not intended to be used as the primary joint sealant for chemical containment vessels. Consult manufacturer for guidance regarding chemical compatibility for secondary chemical containment applications. Additionally, TechCrete Waterstop Strip is not an expansion joint sealant.

APPLICATIONS

Applications include both vertical and horizontal non-moving concrete construction joints, new to existing concrete construction, irregular surfaces, and around through-wall penetrations, such as plumbing and utility pipes. Additionally TechCrete Waterstop Strip can seal around concrete pilings and steel H-piles passing through the slab. TechCrete Waterstop Strip works in both continuous hydrostatic and intermittent hydrostatic conditions.

TechCrete Waterstop Strip is designed for reinforced structural concrete with a minimum of 3,000 psi (20N/mm2) compressive strength. TC-101 and TC-101T are designed for concrete 8" (200 mm) thick or greater with two rows of reinforcing steel. TC-102 is designed for vertical concrete 6" (150 mm) thick or greater; and horizontal concrete no less than 4" (100 mm) thick. TC-102 should be used in concrete with one row of steel reinforcement, concrete curbs, planter walls, fountains, and lightweight structural concrete.

TechCrete Waterstop Strip is a reliable, cost-effective means to stop water infiltration through concrete cold joints. It can also be used around pipe and structural penetrations

INSTALLATION

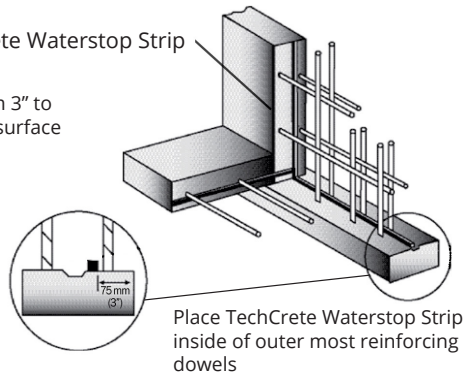
Surface preparation: Surfaces should be clean and dry. Remove all dirt, rocks, rust or other construction debris. Do not install TechCrete Waterstop Strip in standing water or on an iced substrate.

Adhesive: Apply a continuous bead of TechCrete Waterstop Adhesive along the substrate where TechCrete Waterstop Strip will be installed. Keep the nozzle tip pressed against the concrete at a 45^0 angle during application.

Installation: After applying a continuous bead of TechCrete Waterstop Adhesive, firmly press the entire length of TechCrete Waterstop Strip onto the adhesive. For vertical and overhead applications, firmly press a minimum of 15 seconds to assure adhesion.

Tightly butt coil ends together to form a continuous waterstop - do not overlap coil ends. Place in maximum practical lengths to minimize coil end joints. Where required, cut coils with a sharp knife or utility blade to fit coil ends together. Make horizontal to vertical transitions by abutting product coil sections together. No special accessory pieces are required. At structural and pipe penetrations, cut into strips to fit around the penetration. Apply to adhesive and abut coil ends together. There should not be any air gap between the TechCrete Waterstop Strip and the substrate.

FOOTING / WALL JOINT



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LIMITATIONS

TechCrete Waterstop Strip is not a self-adhering product. TechCrete Waterstop Adhesive is required to secure TechCrete Waterstop Strip to concrete, metal, or PVC (Pipe) surfaces. Mechanical fasteners should not be used to secure TechCrete Waterstop Strip alone.

TechCrete Waterstop Strip is not designed, nor intended to function as an expansion joint sealant. For precast concrete applications, contact the Technical Department for product suitability and for any special installation requirements. TechCrete Waterstop Strip products are designed for structural concrete with a minimum of 3,000 psi compressive strength. TechCrete Waterstop Strip should only be used in applications where the product is completely encapsulated within the concrete.

TechCrete Waterstop Strip should not be pre-hydrated by being subjected to submersion or remain in extended contact with water prior to encapsulation in concrete. If the product exhibits considerable swell prior to encapsulation in the concrete, it must be replaced with new material. In conditions where severe ground water chemical contamination exists, or is expected, consult manufacturer for product chemical compatibility information.

PACKAGING

• TC-100	3/4" x 1" x 16'-8"	6 rolls / box
• TC-150	1/2" x 1.25" x 16'-8"	6 rolls / box
• TC-00	3/8" x 3/4" x 25'	8 rolls / box

SHELF LIFE & STORAGE

No known limit to shelf life. Keep container sealed and avoid prolonged exposure to direct sunlight.

WARRANTY & SYSTEMS

The following warranties require the use of **TechCrete Waterstop Strip** and are only available through ***TechCrete Certified Applicators***;

- New Construction: **TechCrete DIAMOND** ***30-Year Limited Liability Material & Labor Warranty.***
- New & Existing Construction: **TechCrete EMERALD** ***15-Year Limited Liability Material & Labor Warranty.***

The following warranties are available when using **TechCrete Waterstop Strip**;

- New & Existing Construction: **TechCrete** ***20-Year Limited Liability Material Warranty***.

For additional information about the Alchemco system specifications or available warranties, either contact your local Alchemco distributor or Alchemco's Technical Department at info@alchemco.com or call 800-610-2895.

WARNINGS

No known hazards to this product.

See Safety Data Sheet for further details regarding safe use of this product. Alchemco, 8590 Sanford Drive, Henrico, VA 23228. 800-610-2895.

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WARRANTY DISCLAIMER
Because of conditions of use which may be beyond our control, Alchemco shall not be held responsible in any manner for any personal injury or property loss resulting to the buyer or any other person from handling, storage, or use of this material not in accordance with directions. The buyer and/or user assumes all risk and liability resulting from improper handling or usage. There is no warranty expressed or implied of any kind, except as supplied in writing.

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TECHNICAL DATA

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