

Technical Data Sheet



1. PRODUCT NAME

BULL-BOND® Water Stop™

Fast Setting Hydraulic Cement

2. DISTRIBUTOR

CONSPRO CORPORATION

PO BOX 361628

San Juan, PR 00936-1628

PHYSICAL ADDRESS:

PR-175 Km 0.02 Río Cañas Industrial Park 35
North Street CAGUAS, PR 00725

TELEPHONE: (787) 653-4900

FAX: (787) 653-4949

WEB PAGE: <http://www.bull-bond.com>
<http://www.conspro.com>

E-MAIL: info@conspro.com

3. PRODUCT DESCRIPTION

Water Stop™ is a fast setting, non-shrinking, hydraulic cement compound, composed of fast set cements, silica sand, set accelerators and bonding additives. **Bull-Bond® Water Stop™** is a cementitious repair material with rapid strength development. It is formulated to stop leaks in all types of concrete or masonry surfaces; and is particularly designed to instantly stop the flow or running water through cracks or holes in concrete structures. In addition it plugs and seals cracks in concrete.

Water Stop™ sets in less than 1 minute, depending on the temperature of the mix, water and the substrate. It maintains its dimensional stability and assures a tight and firm seal that will not corrode or decompose. Product is stronger and more durable than regular Portland cements and is resistant to sulfates.

Water Stop™ is non-toxic when cured, sets under water, is non-shrinking and locks in the repaired concrete in just 4-5 minutes.

Water Stop™ is used to plug all cracks and openings in concrete, masonry walls, dams, manholes, wells, tanks and stops water seepage at the junction of walls and floors. It is effective even under hydrostatic pressure. It is also used for anchoring bolts, hand railings, repairing cracks in concrete floors, and utility structures.

4. TECHNICAL PRODUCT DATA

Physical Properties @ 75°F

Compressive Strength:	4 hours	1000 psi.
ASTM C-109	1 day	2300 psi.
	7 days	3500 psi.
	28 days	4700 psi.
Gilmore Needle	Time of set	50 seconds.

5. INSTRUCTIONS FOR USE

5.1 All cracks or openings should be carefully prepared by cleaning out foreign matter and cutting out loose materials. All dirt, grease, oil, wax, and loose concrete must be removed. Cracks must be opened to a minimum width of 1" at the surface and surface to be bonded roughened. The inner portion of the crack should be undercut so the deep inside the crack it is wider than at the surface.

5.2 Wherever possible, square out the crack to the extent of making it larger at the base. Cracks should not be left in a sharp **V** form, particularly where water under hydrostatic pressure is to be dammed off.

5.3 If hole or crack is not leaking at the time of the repair, soak the area with water for at least 15 minutes before placing **Water Stop™** hydraulic cement.

5.4 After filling a crack or hole, the plug should be kept damp to assure complete hydration of the cement. Never re-temper or re-mix **Water Stop™**. If areas to be patched are holding water under pressure, weep holes should be made at the base of the wall to relieve the pressure. In extremely warm weather use ice water to retard and slow down the set of **Water Stop™**. In cold water all surfaces to be plugged, as well as the **Water Stop™**, should be warmed to approximately 70°F, to achieve a more normal setting rate and for best results.

5.5 For anchoring bolts, posts, dowels and other penetrants drill hole deep and large enough to have at least 1" (25 mm) to 1½" (38 mm) of clearance around the fixture. Mix to a putty consistency and place **Water Stop™** in hole. Tap or vibrate fixture firmly to assure good cement placement. Keep area damp until material cools

approximately 15 minutes.

5.6 Other Applications:

5.6.1 Cracks at Floor and Wall Junctions:

Widen and clean cracks to a least $\frac{3}{4}$ "in width and depth. Force the **Water Stop™** into the prepared crack with a round tool and smooth out. Prepare a cove at the junction.

5.6.2 Streams of running water: Prepare all cracks properly and if possible, relieve excess hydrostatic pressure by drilling a relief hole or by chiseling out the crack at its very lowest point. After mixing, immediately place the **Water Stop™** and force into the hole or crack that is to be sealed. Start filling cracks or holes at the top to close the final opening and to seal of a stream of water. Force into the hole the cement putty and exert pressure either with your hand or trowel for a full 5 minutes or longer. In some cases, where the water is extremely cool, it may be necessary to hold the plug in place for a little longer.

5.6.3 Percolating Cement Plaster: When treating seeping walls remove all foreign materials such as white wash, loose particles of concrete or block, oils and paint. Add an equal quantity of standard Portland cement and fine mason sand to **Water Stop™**. Use cool mixing water to make slurry of the cement, sand and **Water Stop™**. Apply the heavy slurry to the seeping wall, where it will set up and stop water seepage in 10 minutes time.

5.6.4 Bolt Anchoring: Use a star drill to make a hole 1 inch to $1\frac{1}{2}$ "larger in diameter than the anchor bolt. Mix **Water Stop™** with water, and quickly pour and tamp it into place around the anchor bolt.

6. MIXING INSTRUCTIONS

6.1 Gradually add **Water Stop™** to clean water and mix and knead with a small trowel. Mix material to consistency of putty or thick mortar with no slump. Material should not be mixed for more than 2 minutes. Prepare material to be used in 3 minutes. Warm water speeds set time and cold water retards the setting time. Do not add additional water or retemper **Water Stop™** once mixed. Discard product that sets before being placed or used.

6.2 Wear rubber gloves. Mix product and shape to a form similar to the crack or cavity to be sealed. Hold **Water Stop™** in your hand until heat is felt and then force material into crack or void. This hydraulic cement produces heat to enhance its fast set time and improve surface bonding at low

temperatures.

6.3 Force material into the damp crack or hole using maximum pressures and hold until set occurs. When repair areas are under high water pressure, start at the top of the area and work down. Put **Water Stop™** on a wood board and hold min place for 5 to 10 minutes. Do not trowel over product surface and shave of excess material with a sharp trowel or knife.

6.4 If **Water Stop™** is used under water, mix, knead and form at the surface. Position and force product under water and hold in position until it sets.

6.5 Curing: Keep surface damp while curing to avoid cracking. Mist area filled with water for 15 minutes to assure proper hydraulic cement hydration and strength development.

7. COVERAGE AND YIELDS

One pound of **Water Stop™** will fill 18 cubic inches or 280 cubic centimeters, equivalent to a crack with the following dimensions: $\frac{3}{4}$ " X $\frac{3}{4}$ " X 30" long. (2 cm X 2 cm X 75 cm).

The 50 pounds plastic pail when mixed to a putty consistency will yield 0.45 cubic feet or 0.013 m³.

8. PACKAGING AND AVAILABILITY

50# plastic pail - .45 cu. Ft. (778 cubic inches)
15# plastic pail - .135 cu. Ft. (260 cubic inches)

Water Stop™ is available at construction products distributors and home improvement stores. Contact Conspro Corporation for additional information on retailers in your area and pricing.

9. STORAGE AND SHELF LIFE

9.1 Clean all tools and equipment with potable water while cement is wet. Cured material can only be removed by mechanical means.

9.2 Store in a covered area, with a normal 50°F - 90°F ambient temperature. Rotate product stock to assure good first-in first-out inventory rotation. Keep container tightly closed. **FOR INDUSTRIAL USE ONLY.**

9.3 Shelf Life:

Factory sealed containers of **Water Stop™** are guaranteed to be of good quality and fit for use for

ONE year after purchased.

10. PRECAUTIONS AND FIRST AID

10.1 Keep out of the reach of children. Not for internal consumption. Keep container tightly closed. FOR INDUSTRIAL USE ONLY. Read MSDS before use.

10.2 Water Stop™ contains PORTLAND CEMENT and some silica sand. Silica can cause SILICOSIS a lung disease. Avoid overexposure to airborne cement dusts. Practice good housekeeping when handling, protect food and drinks. Do not eat or smoke when using this product.

10.3 Water Stop™ becomes alkaline on contact with water and may cause skin injury. Care should be exercised to prevent splashing on sensitive skin. This product is intended for industrial use only. Read Material Safety Data Before using.

10.4 Use rubber gloves and safety glasses when handling this product. Avoid skin and eye contact.

10.5 Avoid contact with skin. Wash exposed skin areas promptly with plenty water.

10.6 If any cement powder or mixture gets into eyes, rinse immediately with water for 15 minutes and get medical attention immediately.

11. DISCLAIMER

CONSPRO CORPORATION products are designed to be used by competent persons in accordance with current published instructions and technical data. These materials are for use in the construction industry trade or for professional or industrial use.

We can not be responsible for problems caused by inferior workmanship, conditions unknown or beyond our control, or by the use of faulty secondary materials integrated to our product's final system use.

To be valid, all defective product claims must be received in writing; 180 days from the day of shipment or delivery. No claims will be considered without such written notice or after the specified time interval.

CONSPRO CORP. will promptly investigate all reported claims. Our investigator will prepare a written/oral report describing the nature of the problem and his explanations for the reported difficulties. An authorized officer of the Corporation will handle all complaints and resolve any pending problems after this point.

11. DISCLAIMER (cont).

The user shall determine the suitability of the product for his intended use before application and/or use. The user assumes all liabilities and risks whatsoever in connection the use and application of the product. All claims are voided if product is used contrary to CONSPRO CORPORATION published instructions.

12. PRODUCT WARRANTY

CONSPRO CORPORATION, (SELLER) WARRANTS THAT IF ANY GOODS SUPPLIED PROVE DEFECTIVE IN WORKMANSHIP OR MATERIAL, THE SELLER SHALL REPLACE THEM OR REFUND THEIR PURCHASE PRICE.

THIS WARRANTY IS MADE IN LIEU OF ANY AND ALL OTHER WARRANTIES, EXPRESSED OR IMPLIED, INCLUDING THE WARRANTIES OF MERCHANTABILITY AND/OR FITNESS WHICH ARE HEREBY DISCLAIMED.

IT IS UNDERSTOOD AND AGREED THAT BUYER'S SOLE REMEDY, AND THEREFORE SELLER'S LIABILITY, WHETHER IN CONTRACT, TORT, UNDER ANY WARRANTY, IN NEGLIGENCE, OR OTHERWISE SHALL BE LIMITED TO THE RETURN OF THE PURCHASE PRICE PAID BY PURCHASER OR REPLACEMENT OF ANY DEFECTIVE GOODS SOLD BY SELLER AND UNDER NO CIRCUMSTANCES SHALL SELLER BE LIABLE FOR SPECIAL, INDIRECT OR CONSEQUENTIAL DAMAGES. THE PRICE STATED FOR THE GOODS IS A CONSIDERATION IN LIMITING SELLER'S LIABILITY. ACCORDING TO LAW, ANY LIABILITY OR RISK RESULTING FROM THE USE OF THIS PRODUCT IS ASSUMED BY THE PURCHASER/USER EXCEPT WHERE A SPECIFIC WARRANTY IS PROVIDED BY THE MANUFACTURER IN WRITING.

BEFORE APPLICATION, THE PURCHASER USER SHALL DETERMINE THE SUITABILITY OF THE PRODUCT FOR HIS INTENDED USE AND PURCHASER/USER ASSUMES ALL LIABILITIES AND RISKS WHATSOEVER IN CONNECTION THEREWITH. THE TERMS OF THIS WARRANTY NOTICE MAY NOT BE ORALLY MODIFIED. THERE ARE NO WARRANTIES WHICH EXTEND BEYOND THE FACE HEREOF.

ALL WARRANTIES ARE VOIDED IF PRODUCT IS USED CONTRARY TO CONSPRO CORPORATION WRITTEN INSTRUCTIONS AND TECHNICAL DATA SHEETS.

For additional product information check our web pages at:

www.conspro.com
www.bull-bond.com.

Revision: WSTP: 2004-01
August/31/2004.