

CERTI-VEX[®] WATER PLUG

RAPID SETTING HYDRAULIC CEMENT

DESCRIPTION

CERTIVEX WATER PLUG is a single component, rapid setting, hydraulic, cementitious, water stopping mortar that provides a dense barrier to permanently seal out active water. The product is polymer modified ensuring superior adhesion and bonding. When mixed with clean potable water, the material sets in 3 to 5 minutes at 70° F (21° C).

RECOMMENDED FOR

- Foundation and retaining walls, dams, tunnels, sewers, water and waste water treatment plants, mines, wells, elevator pits, cisterns and tanks.
- To plug any leaks in any concrete or masonry surface.
- To prevent seepage along cracks or seams at the floor and wall intersection and seal holes left by tie wires.
- To seal all leaks around piping and conduit passing through concrete and masonry walls.

BENEFITS

- Rapid setting
- Stops flowing water
- Non-shrink – 0.5% expansion
- Sets up under water
- Excellent freeze/thaw resistance
- Nonmetallic
- High early strength
- Interior and exterior use
- Above and below grade repairs
- USDA approved as a water stopping cement in federally inspected meat and poultry plants.

SURFACE PREPARATION

- Undercut or square, do not use a “V” cut, the substrate and open the crack or hole to a minimum depth and width of 3/4” (2cm).
- Wire brush and then flush away all loose material. Remove all oil, grease, dirt and other contaminants by scrubbing with an industrial detergent, flushing thoroughly with clean water to expose clean sound concrete.

PRIMING

- The substrate surface must be thoroughly wet before applying Certi-Vex Water Plug otherwise apply StarSeal Envio Bond.
- Use of a primer before the application of Certi-Vex Water Plug is necessary for spalls and any areas where the top surface is less than 1” and will be subjected to traffic. Use StarSeal Envio Bond as primer in accordance with Vexcon’s application directions.

MIXING

- To each pound of Certi-Vex Water Plug add approximately 4 oz of clean, potable water and mix the Certi-Vex Water Plug in a small container until a putty type consistency is obtained.
- **NOTE:** Do not mix more material than can be placed in 3 minutes. **DO NOT RE-TEMPER!!**
- **NOTE:** At temperatures above 70° F (21° C) use cold water for mixing.
- **NOTE:** At temperatures between 40 - 50° F (4 -10° C) use warm water for mixing.

PLACING

- To stop flowing water Certi-Vex Water Plug must be placed **IMMEDIATELY AFTER MIXING**.
- Prior to applying the Certi-Vex Water Plug, ensure that the substrate is wet, damp or primed to avoid premature and/or uneven curing.
- Using **WATERPROOF GLOVED HANDS**, form the material into a cone shape and hold until a slight rise in temperature occurs. Then firmly press and hold the Certi-Vex Water Plug into the repair area until final set occurs.
- The Certi-Vex Water Plug may now be shaved to obtain a flush finish with the surface. In other areas of repair, Certi-Vex Water Plug may be troweled into open cracks and joints.

SET TIMES

Certi-Vex Water Plug has a pot life of 3-5 minutes at 70° F (21° C). Cold water 40° F (4° C) will retard the set time and hot water 90° F (32° C) will accelerate the set time

HARDENING

The hardening time of Certi-Vex Water Plug is approximately 3 to 5 minutes at 70° F (21° C).

YIELD

Certi-Vex Water Plug will yield approximately 0.4 cu.ft. (0.01 cu.m) per 50 lb. pail.

COVERAGE

One pound of Certi-Vex Water Plug will fill 17 cu./in., or a crack 3/4” X 3/4” X 30”

CURING

Product is self curing. Keep plug damp for 15 minutes.

PACKAGING

Certi-Vex Water Plug is packaged in a 50 lb. pail.

STORAGE CONDITIONS

Store Certi-Vex Water Plug at or above 45° F (7° C) in a dry area. Avoid excessive heat or humidity.

COLOR

Certi-Vex Water Plug is available in gray only.

SHELF LIFE

When stored in original, un-opened container, one year.
Rotate your stock

LIMITATIONS/SPECIAL NOTES

- Apply to a clean, sound, properly prepared substrate.
- Application and curing times are dependent upon ambient conditions. Cold temperatures retard set time and hot temperatures accelerate set time.
- Minimum ambient surface temperature should be above 50° F (10° C) at the time of application; however, warm water should be used to mix the materials at lower temperatures. Call Vexcon technical services for more information on cold weather applications.
- Inactive leaks should be thoroughly dampened prior to application or **StarSeal Envio Bond** (Product data sheet RP101) should be applied to concrete prior to application of Certi-Vex Water Plug.
- Proper application of Vexcon material is the responsibility of the installer or user. Telephone consultation and/or field visits by Vexcon personnel are for the sole purpose of making technical recommendations only, and not for providing quality control or supervision on location

CONTACT US

Additional product information, technical assistance and customer service are available by contacting Vexcon Chemicals directly or our distributors.

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TECHNICAL DATA

Temperature limitations

Low temperatures retard set time
High temperatures accelerate set time

Compressive Strength (ASTM C 109) @ 72°F

1 day	2,600 psi
7 day	3,950 psi
15 day water soak	4,120 psi
28 day	4,400 psi

Flexural Strength (ASTM C 348)

1 day	265 psi
7 day	770 psi
15 day water soak	940 psi
28 day	1,180 psi

Tensile Strength (ASTM C 190)

1 day	175 psi
7 day	535 psi
15 day water soak	575 psi
28 day	780 psi

Gardner Impact Greater than 158 inch lbs.

Water Penetration

3 day soak 1/8"

HEALTH AND SAFETY

This product is a gray powdered solid. Continued inhalation of dust over a period of years without proper respirator and ventilation controls will cause silicosis and lung cancer. Use only with safety glasses, neoprene gloves and protective clothing recommended.

Before using this Vexcon product, it is advisable to obtain a copy of MSDS RP210 from your distributor or contact Vexcon Chemicals.

WARRANTY

Vexcon warrants that the goods supplied hereunder shall be of its standard quality and shall conform in all material respects to the sample which has been made available for testing by buyer prior to sale. As the EXCLUSIVE REMEDY for any breach of this Limited Warranty, Vexcon shall replace nonconforming goods or refund the purchase price. Since methods of use and application are beyond Vexcon's control, this Limited Warranty IS IN LIEU OF ALL OTHER WARRANTIES EXPRESS OR IMPLIED, INCLUDING, BUT NOT LIMITED TO, THOSE CONCERNING MERCHANT ABILITY OR FITNESS FOR A PARTICULAR PURPOSE. THIS LIMITED WARRANTY IS ALSO IN LIEU OF ANY OTHER POSSIBLE LIABILITIES OF VEXCON, WHETHER ALLEGED TO ARISE BY AGREEMENT OR BY OPERATION OF LAW, RESPECTING THE SALE, APPLICATION, USE OR FUNCTION OF VEXCON'S PRODUCTS, INCLUDING BUT NOT LIMITED TO CLAIMS OR NEGLIGENCE, GROSS NEGLIGENCE, STRICT LIABILITY OR ANY OTHER TORT. IN NO EVENT SHALL VEXCON BE LIABLE FOR PERSONAL INJURY OR PROPERTY DAMAGE, REAL OR PERSONAL, ATTRIBUTED TO ITS PRODUCTS, NOR FOR ANY EXCAVATION, REMOVAL, REAPPLICATION, DOWN TIMES, CLEANUP, LOSS OF USE, LOSS OF OPPORTUNITY, LOSS OF MARKET VALUE, LOSS OF RENTAL VALUE OR FOR ANY LOSS OF PROFITS OR OTHER SPECIAL, INCIDENTAL, RESULTING, CONSEQUENTIAL OR EXEMPLARY DAMAGES. No person is authorized by Vexcon to assume for it any other liability of any kind in connection with the sale or use of products manufactured and sold by it, and there are no oral agreements or warranties collateral to or affecting any sale or use. All of the foregoing arises under the substantive law of Pennsylvania without regard to principles of conflicts of laws.