



## Fast Setting Crystalline Cementitious Waterstop & Patching Mortar

- ☑ "Hydraulic Cement" - stops active water leaks
- ☑ NSF/ANSI Std. 61 potable water certified
- ☑ Enhanced with crystalline technology
- ☑ Non-metallic & Chloride free



### Product Description

AQUAFIN PLUG-IC is a 1-component, ready mixed cementitious non-shrink, high-bond strength hydraulic cement, enhanced with Aquafin's crystalline technology. It withstands strong hydrostatic pressure, is breathable, has no odor, no fumes & is non flammable.

### Typical Applications

Application is against the water pressure to substrates such as:

- Concrete and masonry, interior, exterior, below and above grade, vertical or horizontal.

#### Areas of application:

- Plugging / stopping / repairing water leaks
- Drying of wet areas
- Sealing leaky joints, cracks or formtie holes
- Repairing of concrete substrates before application of Aquafin coating materials.

### Advantages

- ◆ Stops water leaks in two to three minutes at 68°F (20°C)
- ◆ Water stopper and structural repair mortar
- ◆ Approved/certified for use in contact with potable water
- ◆ Excellent bond to concrete and masonry
- ◆ Easy application - No odor - No fumes.

### Substrate Preparation

The substrate must be sound, clean and free of any surface contamination. Leaks must be cut out back to sound substrate, leaving an appropriate chase for PLUG-IC.

### Mixing

**WEAR RUBBER GLOVES.**

Approximate mixing ratio by volume is:

**Add 1 part water to 4 parts powder (1:4)** and mix swiftly to a stiff putty like consistency. Mixing time is about 30 - 60 seconds. Do not mix more than can be used in 2 minutes.

Setting time is dependent mainly on the amount of mixing water used and temperature of water. In cold weather, use

lukewarm or heated water. In higher temperatures, use cold water.

To avoid wastage, only small quantities of PLUG-IC should be mixed.

#### Fast repairs to concrete:

Add water to PLUG-IC to a workable trowel consistency.

### Application

⇒ Do not apply at temperatures below 40°F (5°C) or to a frozen substrate.

#### A.) Active Water Leaks

##### I. Leaking Construction Joints & Cracks:

1. Locate leakage in the concrete.
2. Start at the highest point and work down.
3. Cut/rout out the active leak to sound substrate or 1" - 2" (25 - 50 mm) depth and 1" (25 mm) width in a U-shaped configuration.
4. Clean the cavity and remove excess water with a sponge, air blower, vacuum, or other suitable means.
5. Mix PLUG-IC as per mixing instructions.
6. **WAIT UNTIL THE PLUG-IC BEGINS TO STIFFEN AND BECOMES WARM (~ 1 min.).**
7. Place Plug-IC into the cavity using the hands or a brick jointer and hold firmly in place until it has set (hard).
8. When the Plug-IC has set apply surface Aquafin waterproofing (i.e. AQUAFIN-IC, AQUAFIN-1K, MORTAR-LN, MEGA-MORTAR-IC, etc.) over concrete, CMU or brick surface.

##### II. Plugging with a drain:

1. Follow steps 1. to 3. above.
2. Insert a pressure relieving drain (i.e. 3/8" - 1/2" (10 - 12 mm) clear plastic pipe) into the cavity at the lowest point to force water through it.
3. Mix PLUG-IC as per mixing instructions.
4. **WAIT UNTIL THE PLUG-IC BEGINS TO STIFFEN AND BECOMES WARM (~ 1 min.).**
5. Immediately mold PLUG-IC into the cavity around the drain, and maintain pressure on the plug for at least 1 minute.
6. Allow minimum 24 hrs for hardening.
7. Carefully remove the drain pipe and plug the remaining hole as described above. If necessary, insert steel wool or wooden plug to reduce water flow.
8. In extreme cases it may be necessary to use more than one plug or drain pipe. When the PLUG-IC has set apply surface waterproofing as described above.

#### B.) Patching - Surface repair

Apply PLUG-IC in trowel consistency by hand or by trowel to the areas to be repaired.

### Packaging & Yield

PLUG-IC is packaged in 10 lb, 25 lb and 50 lb (4.5, 11.4 and 22.7 kg) plastic pails.

50 lb (22.7 kg) pail yields approx. 0.5 ft<sup>3</sup> (0.017 m<sup>3</sup>).

1 lb (0.45 kg) will fill a cavity of approx. 1" x 1"

### Technical Data

Aggregate State:	Powder
Color:	Concrete Gray
Bulk Density:	~75 lbs/ft <sup>3</sup> (~1.2 kg/dm <sup>3</sup> )
pH - Value:	11 - 13.5
VOC Content:	0 g/L
Compressive Strength: (ASTM C-109)	24 Hrs: 2800 psi (19 MPa) 7 Days: 3200 psi (22 Mpa) 28 Days: 3850 psi (26 MPa)
Flexural Strength: (ASTM C-348)	24 Hrs: 320 psi (2.2 MPa) 7 Days: 360 psi (2.5 Mpa) 28 Days: 430 psi (3.0 MPa)
Initial set:	Approx. 2 minutes
Final set:	4 minutes at 68°F (20°C)

All data are average values obtained under laboratory conditions. In practical use temperature, humidity and absorbance of the substrate may influence the above given values.

x 24" (25 mm x 25 mm x 600 mm).

### Storage & Shelf Life

PLUG-IC must be stored in a dry enclosed area off the ground. Shelf life in unopened, undamaged pails is 12 months.

### Safety

**Refer to MSDS.** For commercial use only. This product contains Portland cement and sand (crystalline silica) and is highly alkaline. Dust may cause respiratory tract irritation and/or delayed lung injury (silicosis). NTP lists crystalline silica as a suspect carcinogen. Avoid breathing dust. Avoid contact with skin and eyes. Wear rubber gloves and safety goggles during mixing and application. After contact with skin, wash with plenty of water. In case of eye contact, rinse immediately with plenty of water for 15 minutes and seek medical advice.

**KEEP OUT OF REACH OF CHILDREN.**

LIMITED WARRANTY: AQUAFIN, INC. warrants this product for 1 year from installation to be manufactured free of defects and to be consistent with its standard high quality. We will replace or, at our election, refund the purchase price of, any product which is proven to be defective, provided that the product was properly applied. Our product recommendations are based on Industry Standards and testing procedures. We assume no warranties either written, expressed or implied as to any specific methods of application or use of the product. AQUAFIN, INC. MAKES NO WARRANTY AS TO MERCHANTABILITY OR FITNESS FOR A PARTICULAR PURPOSE AND THIS WARRANTY IS IN LIEU OF ALL OTHER WARRANTIES EXPRESS OR IMPLIED. AQUAFIN, INC. shall not be liable for damages of any sort including remote or consequential damages, down time, or delay.

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