

# FIBPLUG

## *Cementitious Quick Setting Mortar*

### DESCRIPTION

Fibplug is fast setting, hydraulic cement product formulated to stop leaks in concrete and masonry surfaces. It is particularly effective for stopping the flow of running water. Fibplug is ready to use and requires only the addition of water before plugging and sealing cracks.

### AREAS OF APPLICATION

- Basement repair
- Manhole repairs
- Concrete pipe and bell repairs
- Anchoring bolts and hand rail setting

### ADVANTAGES

- Plugs wet cracks in concrete and masonry surfaces to seal out water.
- Stops water seepage at floor and wall junctions.
- Stops running water, reducing damage.
- Expands as it sets for a water tight repair.

### APPLICATION METHODOLOGY

#### SURFACE PREPARATION

Concrete must be clean and rough. All oil, dirt, debris, paint and unsound concrete must be removed. The surface must be prepared mechanically using a scabber or wire brush. The final step is cleaning - complete removal of all residue with a vacuum cleaner or pressure washing

#### BONDING

Fibplug requires no special bonding procedures, just a clean sound surface.

#### MIXING

Quantities may be mixed with a drill and "jiffy" mixer. All materials should be in the proper temperature range of 16°C- 32°C. Add the appropriate amount of water for the batch size and then add the dry product. Mix for about one minutes. The mixed product should be placed immediately .

#### PLACEMENT

**Cracks** : widen out and clean cracks to at least 15 mm in width and depth. Force the **Fibplug** plug into the prepared crack with a pointing trowel and slick off the surface. Prepare a cove at the junction. If more time is desired when preparing the cove, mix the Fibplug with ice water.

#### RUNNING WATER

Dam up 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. Mix an adequate quantity of Fibplug. After mixing, immediately place the plug of Fibplug in your hand and hold it until it suddenly begins to get warm. This will take 2 -3 minutes from the start of mixing. At this point, speed in working is essential. Force the Fibplug into the hole or crack which is to be sealed off. Start filling cracks or holes at the top. To close the final opening and seal off a stream of water, make sure the Fibplug is starting to warm up.



At that moment force into the hole and exert pressure either with your hand or trowel for a full 5 minutes or longer to assure setting of the plug. In some cases where the water is extremely cool, it may be necessary to hold the plug in place for a little longer.

### **CEMENT PLASTER**

When treating seeping walls, remove all foreign materials such as white wash, loose particles of concrete or block, oils or paint. Add an equal quantity of standard portland cement and fine sand to Fibplug. Apply the heavy slurry to the seeping wall where it will set up and stop water seepage in 10 minutes time.

### **BOLT AND HAND RAIL ANCHORING**

Use a star drill to make a hole approximately 1 - ½" (38 mm) larger than the anchor. Mix enough Fibplug to fill the area and pour and tamp it into place around the anchor.

### **FINISHING**

Finish Fibplug to the desired texture to match the surrounding concrete. Do not add additional water to the surface during the finishing operation. Use Cementitious Waterproofing Coat as a final waterproofing coating for additional protection against water seepage and to improve the appearance and uniformity of the repair area.

### **CURING & SEALING**

Fibplug requires no special curing procedures.

## **CLEAN-UP**

Clean tools and equipment with water before the material hardens.

## **COVERAGE RATE**

Mix approx. 180 ml of water per 1 kg of Fibplug. 5.4 kg of Fibplug will cover approx. 0.022 m<sup>2</sup> for a depth of 12.7 mm.

## **PRECAUTIONS**

- Mass placement of Fibplug (greater than 27 kg), may result in very rapid and unstable curing.
- Large area placements over 3" (76.2 mm) in depth should be avoided.
- The temperature of the patch should not be allowed to increase over 52°C.
- Use of cold mixing water or application of cold water to the repair surface is advised if large placements are expected.
- Store product in a dry place.

## **TECHNICAL SPECIFICATIONS**

The following results were developed under laboratory conditions .

### **COMPRESSIVE STRENGTH**

<b>Age</b>	<b>Strength</b>
1 hour	80 kg/cm <sup>2</sup>

### ***Cementitious Quick Setting Mortar***

1 day	170 kg/cm <sup>2</sup>
7 days	280 kg/cm <sup>2</sup>
28 days	320 kg/cm <sup>2</sup>

The standard formula Fibplug typically has a reaction time of 3 to 5 minutes. A slower setting formula (12 - 15 minutes) is also available upon request.

### **APPEARANCE**

Fibplug is a free flowing powder as packaged. After mixing with water and placing, the colour may initially appear much darker than the surrounding concrete. While this colour will lighten up substantially as the concrete cures and dries out, the repair may always appear somewhat darker than the surrounding concrete.

The final troweled appearance can be any texture consistent with that expected from concrete and should be specified by the owner.

### **PACKAGING**

Available in 1 kg ,25 kg bags. & Project Standard

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