

# GEOPLUG®

## Rapid Set Water-Stop



STORM + SANITARY

The GeoPlug® water-stop is a rapid setting water infiltration patch. GeoPlug powder is uniquely designed to quickly fill, plug and restore blemishes in host pipes during or prior to rehabilitation. GeoPlug powder immediately stops leaks in corrugated metal pipe, precast concrete pipe, tanks, floors, wells, manholes, pump station and similar structures. GeoPlug powder is a temporary repair to stop active flow of water until a structural repair can be completed.

### TYPICAL USES

GeoPlug water-stop can be used to immediately stop leaks in structures, such as:

- ◆ Corrugated metal pipe
- ◆ Precast concrete pipe
- ◆ Pump stations
- ◆ Tanks
- ◆ Floors
- ◆ Wells
- ◆ Manholes

### MATERIAL DATA

### INFORMATION

### METHOD

GeoPlug Water-Stop	50 lb. (22.7 kg) buckets	
Working Time	3 to 5 minutes at 80°F (27°C)	
Working Temp.	40°F to 95°F / 5°C to 38°C	
Compressive Strength	540 psi (3.70 MPa) 1hr	ASTM C-109
	780 psi (5.40 MPa) 24hr	

### BENEFITS

- ◆ Rapid setting fill that expands in to holes and crack
- ◆ Easily mixed and applied
- ◆ Low cost solution when compared to chemical grouts



### STORAGE

GeoPlug water-stop shall be stored in a cool, dry location. Stored under proper conditions, shelf life is one year.



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### COMPOSITION

A proprietary cementitious water-stop mortar. Powder is fine light brown. Combined with water creates a moldable pliable putty.

### YIELD AND COVERAGE

Coverage per pail approximately 0.49 ft<sup>3</sup> / 800 in<sup>3</sup> / 0.014 m<sup>3</sup>

### PACKAGING

GeoPlug water-stop is available in ready to mix 50 lbs (22.7 kg) containers.

### MIXING

GeoPlug water-stop only needs a small amount of water added to the powder until the material becomes a workable putty. This is achieved by adding 1 parts water to 8 parts powder by volume. GeoPlug water-stop is designed to set quickly so do not mix more material than can be placed in 5 minutes.

The material can be mixed by hand with proper PPE (gloves) into a workable putty or be used as a dry powder and water from the infiltration or leak.

### WORK TIME

GeoPlug water-stop mortar starts working the moment water is introduced. Once in place. GeoPlug water-stop will begin to stiffen in 45 to 90 seconds and will lose pliability and workability in 3-5 minutes. Work time is approximately 3 to 5 minutes at 80°F (27°C)

Additional water will NOT retard or prolong workability time. GeoPlug water-stop requires continual mixing or agitation until it is applied, and continues to cure after it is in place.

### SURFACE PREP

Chip away soft, deteriorated, unsound substrate. Clean cavity completely.

### APPLICATION

GeoPlug water-stop should be applied when material becomes warm and putty like. Press material into patch area by hand or with trowel and hold until patch becomes hard. To stop in-filtration water, seal crack from top to bottom. Continue this process until the patch area is completely filled with GeoPlug water-stop.

Once area to be repaired is filled with putty, dust surface with dry GeoPlug water-stop mortar to set putty faster and assure leaking has completely stopped.

In hot weather above 85°F (30°C) GeoPlug water-stop will set faster and should be protected from heat. Use cold water to delay setting and give more working time.

GeoPlug water-stop has an ultra-low abrasion rate on hoses and equipment; they will last much longer, with fewer interruptions and remobilizations.

In cold weather below 50°F (10°C) GeoPlug water-stop may set slower. Warm unmixed GeoPlug powder and mix with warm water to accelerate set.

Excess material should be wiped off the repaired area while smoothing and blending the compound into the surrounding surface.

With a gloved hand Plug minor leaks first working from the edges. Place GeoPlug mix firmly into the crack or hole. For large opening, form compound into carrot shape, when firm, ram into cavity and the strike flush with surface.

### CURING

No special curing process is required. Once material is hardened, curing will be complete in less than 5 minutes.

### HEALTH & SAFETY

Before using GeoPlug water-stop, read the Safety Data Sheet (SDS) for safe use, health and physical hazard information. An SDS sheet was provided with the material when it was delivered. GeoPlug water-stop, is a cementitious powder and may cause significant skin and eye irritation. Directions for treating these problems are clearly listed on the SDS sheet. This sheet contains health and safety information for the protection of workers and customers.

GeoPlug powder when mixed with water will create an exothermic reaction that will generate significant heat.

The manufacture recommends that the SDS sheet be available at the work site at all times for access to these treatment solutions if need-ed. Use with adequate ventilation. Do not take internally. Keep out of reach of children.



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Before using any GeoTree product, the user must review the most recent version of the product's technical data sheet, material safety data sheet and other applicable documents, available at [www.geotreesolutions.com](http://www.geotreesolutions.com) or by calling +1.855.655.6750.

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