

## **MAXPLUG**

### **QUICK-SET HYDRAULIC MORTAR STOPS LEAKS UNDER PRESSURE**

#### **Description**

**MAXPLUG** is a quick-setting hydraulic cement that instantly stops running water from cracks, holes or other openings in concrete and masonry, once it sets. It does not contract and sets within three to five minutes depending on the temperature. It only requires water for mixing.

#### **Uses**

- To seal leaks instantly in concrete surfaces and solid masonry.
- For emergency repairs on water pipes. For broken pipes, sometimes **MAXPLUG** will even work when the pipes are under pressure.
- Emergency plugging of gas leaks.
- To anchor bolts and other accessories that require immediate use.
- In basements, tunnels and sewers, to stop water under pressure.

#### **Advantages**

- The coating allows the base to transpire and thereby eliminates water vapour.
- Stops leaks and waterproofs the surface to which it is applied.
- Does not contract, or become weak due to its exothermic reactions.
- It increases in volume. Its rapid set, three to five minutes, may be controlled (either speed up or slowed down) by adding warm or cold water. The setting may even be instantaneous.
- It is the proper maintenance material for homes and industry.
- It is not toxic when it comes into contact with drinking water.
- Its mechanical properties are comparable to those of concrete, and in some cases even superior.
- It sets under water.

#### **Applications**

- To seal leaks instantly in concrete surfaces and solid masonry.
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#### **Tools**

**MAXPLUG** can be applied with a trowel, a spatula or even by hand. As any abrasive material, make sure to use protective rubber gloves when applying by hand.

#### **How to mix**

Mix only the amounts of **MAXPLUG** that can be applied in three minutes; if it is a water leak, mix only the amount of material that can be used with your hand. Use a plastic or rubber container, fill with **MAXPLUG** as needed, and add water slowly until

it has the consistency of cement mortar.  
One kilogram of **MAXPLUG** requires 280 cc of water.

### **How to Use**

Normal weather, **MAXPLUG** takes between three to five minutes to set, depending on the temperature of the product, the water and atmospheric condition. Three to five minutes setting time is for temperatures in the 18° to 20° C range.

Warm weather, when temperatures are high and **MAXPLUG** sets very quickly, cold water must be used to delay the setting time, allowing you time to apply the material.

In extreme cases, keep the product in the shade and add ice to the mixing water.

Cold Weather, at a low temperatures, use warm or hot water to prepare maxplug mixes. At extremely low

temperatures, i.e., below 0° C, heat the material and use hot water.

Surface Preparation. All cracks should have a minimum depth of 2 centimetres and an opening of 1.5 to 2

centimetres. Make a square-shaped cut, preferably dovetail to the surface to which the material is to be applied;

avoid the "V" shape. See drawing above. Clean the surface until it is free of all loose materials; wet the surface if

water is not present at the time of application. Use **MAXPLUG** without force.

### **Sealing Concrete Walls and Slabs**

Once the surface has been prepared by removing the loose concrete from the crack and cutting to a depth of 5

cms., apply maxplug in small amounts. Mix only the amount of material that can be applied by hand; do not pour

the material in place; always use your hands. Wait until it becomes warm before applying, immediately remove

the excess material and continue until the crack is finished. Under great pressure, in tunnels and basements do

not try to plug up the crack at once.

Maxplug is ideal to anchor bolts and metal fixtures to concrete.

### **Sealing concrete slabs and walls**

This is very common in basements, elevator shafts, swimming pools and water towers. Make sure there is an

opening of at least 2 x 3 cm., and seal it with **MAXPLUG** making a waterproof cove at the joint of floor and wall.

### **Sealing Process**

#### **Leaks in cracks or joints**

Once the surface has been prepared by removing the loose concrete from the crack and cutting to a depth of 5

cms., apply **MAXPLUG** in small amounts. Mix only the amount of material that can be applied by hand; do not pour

the material in place; always use your hands. Wait until it becomes warm before applying, immediately remove the

excess material and continue until the crack is finished. Under great pressure, in tunnels and basements do not try

to plug up the crack at once.

### **Expansion joints.**

MAXPLUG, a rigid product once it has set is not the ideal material for this type of work since expansion joints are subject to constant movement. Nevertheless, it is used to stop the water in expansion joints; later, when it is dry, the expansion joint is made with a flexible material.

MAXPLUG is ideal to anchor bolts and metal fixtures to concrete.

### **Technical data**

Mechanical resistance

AGE FLEXURAL STRENGTH

(Kp / cm<sup>2</sup>)

COMPRESSION STRENGTH

(Kp / cm<sup>2</sup>)

30 minutes 12 38

3 days 37 225

7 days 57 362

28 days 52 407

Test No 14-1/83-M INCE, Madrid.

### **Product requirements.**

One kilogram of MAXPLUG fills approximately 0.6 cubic decimeters.

### **Packaging**

25 kilogram drums and 5 kilogram cans.

### **Caution**

As all cement products, MAXPLUG is abrasive a protective rubber gloves must be used to prepare the mixture and apply it. If any of the mixture gets into the eyes, rinse thoroughly with clean water, but do not rub. If irritation continues, consult a doctor.

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