

PENTENS WaterPlug

Quick Set Hydraulic Cement

Product Data Sheet

Description

WaterPlug is a quick setting nonshrink hydraulic mortar and is packaged in powder form. When mixed with water to form a putty consistency, it is ideal for instant stopping of water or leakage through concrete and masonry, and applications that are under hydrostatic pressure. Upon setting the product develops excellent structural strength and watertightness.

Uses

- Repairing water – retaining structures
- Anchoring of bolts, railings and fixtures
- Repairing concrete pipe and precast concrete
- Making rigid joints watertight
- Filling holes left by tie wires
- Repairing honeycombs, cracks and spalls
- Stopping leaks
- Patching mortars and concrete
- Basements and fountains
- Retaining walls and Retaining structures

Advantages

- Non toxic when set
- Easy to use
- Non shrink and expands as it sets
- Stops running water instantly
- Does not contain chlorides and is non-metallic

Test Data

Foam	Black
Compressive Strength (N/mm ²)	30 min 6.0 1 day 12.5 3 days 22.5 28 days 35.0
Shelf Life	1 year when unopened and undamaged
Storage Condition	Store in a dry cool place
Packaging	1.5kg pail 5kg pail 25kg bag

Important Notes

Pentens manufactures a wide range of products specifically designed for the repair and refurbishment of damaged reinforced concrete. These include hand-placed and spray grade repair mortars, fluid micro-concretes, chemical-resistant epoxy mortars and a comprehensive package of protective coatings. In addition, a wide range of complementary products is available. This includes joint sealants, waterproofing membranes, waterstops, grouting, anchoring and specialized flooring materials.

Instruction for Use

Application

If dry, area of application should first be wetted. Trowel apply or hand-knead the mixed mortar in place, ensuring maximum contact with the substrate before the material sets. If being used to plug running water, Waterplug should be used and held in place until the initial set is reached.

Note the minimum applied thickness of Waterplug should be 15mm. For holes which are more than 50mm deep, Waterplug should be applied in 50mm layers, always pre-wetting before applying following layers.

Mixing

Waterplug should be added to clean water in the following proportions :

One part clean water : 3 parts waterplug (measured by volume). Or ½ litre water: 1.6 kg waterplug.

Mix to a stiff consistency in a suitable mixing drum or bucket, using a trowel or gloved hand. Due to the rapid set characteristics of the product, only prepare a quantity of mortar which can be placed within the prescribed set time.

Setting Time

Normal setting time is 1 to 3 minutes at 25C. Time may vary according to ambient conditions. However, when desired or necessary, the setting time can be slowed down by using colder water.

Fire

Waterplug is non-flammable.

Safety

Impervious gloves and barrier cream should be used when handling these products. Eye protection should be worn. In case of contact with eyes, wash thoroughly with plenty of water and seek medical advice if symptoms persist. If contact with skin occurs, it must be removed before curing takes place. Wash off with an industrial skin clearer followed by plenty of soap and water. Do not use solvent. Ensure adequate ventilation when using these products.