



PAKCHEM

PakChem Construction Chemical

PK WATER PLUG

Fast Setting Hydraulic Cementitious Compound

PRODUCT DESCRIPTION

PK WATER PLUG is a fast-setting, expansive hydraulic cement compounded to withstand continual exposure to water, even under pressure. It is cement-based, filling and sealing the pores and voids of concrete or masonry surfaces.

USES

- **Applications:** Industrial, commercial, residential, electrical, or plumbing applications, both above or below grade.
- **Water & Leak Management:** Stops water flow through cracks and holes in concrete and masonry surfaces, including active pressure leaks. Ideal for leaks in basements, foundations, sewer pipes, and manholes.
- **Emergency Repairs:** Rapidly repairs ruptured water pipes, damaged boat hulls, and other surfaces.
- **Specific Structures:** Swimming pools, cisterns, troughs, underwater repairs, silos, tunnels, sewers, elevator pits, and electrical vaults.
- **Sealing:** Creates watertight seals around conduit, gas, and water lines passing through walls.

Advantages

- Sets under water to stop leaks immediately and does not deteriorate under continuous water exposure.
- Sets rapidly for emergency repairs with minimal downtime.
- Available in a winter weather formulation for speedy repairs at low temperatures.
- Slightly expansive with high compressive strength for durable repairs.
- Economical to use; does not require special tools or procedures and mixes simply with water.

TECHNICAL DATA & ESTIMATING

Set Time

PK WATER PLUG: 3–5 minutes @ 70°F/ 21C°
PK WATER PLUG: 3–5 minutes @ 50°F/ 10C°

Estimating Guide

17 in³ per lb. 607 cm³ per Kg. 50 pounds yields 0.5Ft³. 22.7 Kg yields 0.014 M³

PACKAGING

PK WATER PLUG is available in: 10 pound / 4.5 Kg cans (packed 4 per case) 50 pound / 22.7 Kg bags shipped 60 per pallet, shrink-wrapped.

DIRECTIONS FOR USE

Surface Preparation

Enlarge the crack or hole to a depth and width of 3/4" (1.9 cm). An undercut is best; do not "V" cut. For wall-to-floor joints, chip out the joint cutting into both the wall and floor. Brush out all loose material. If the leak is not active, dampen the surface before application.

Mixing

Add clean, drinkable, room-temperature water to a small amount of PK WATER PLUG and mix to a putty-like consistency.

- **Temperature Effects:** Warm mixing water will speed up the setting time; cold water will slow it down. Do not mix more material than can be placed within 3 minutes.

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Continue...

- **Above Normal Temperatures (Over 70°F / 21°C):** PK WATER PLUG sets very quickly and structural strength is reduced. Never use water over 100°F (38°C) or heat the material over 70°F (21°C). Mix with ice water to slow the set and protect the material from hot sun.
- **Below Normal Temperatures (Under 40°F / 4°C):** Low temperatures delay the set and make it difficult to stop flowing water. Warm the mixing water to 70°F (21°C) to speed up the set time, or use the PK WATER PLUG -W formulation.

APPLICATION

General: Compact PK WATER PLUG firmly into the opening and hold tightly with a trowel or gloved hand for about 2 minutes or until the mortar is hard. Do not over-trowel the surface. Grinding or twisting motions during placement will weaken the repair.

To Stop Running Water: Seal the crack from top to bottom. At the point of greatest pressure, force PK WATER PLUG firmly into the opening and hold it in place with a trowel or gloved hand. Exert continuous pressure until it hardens and water stops flowing. Once firmly set, shave excess material even with the surface.

To Seal Wall-to-Floor Joints: Force PK WATER PLUG into the crack and smooth it out, forming a cove at the base of the wall.

Setting Anchor Bolts or Fixtures: Make a hole at least 0.5 in (1.25 cm) larger on all sides than the bolt or fixture. Dampen the walls of the hole and blow out any excess water. Pack firmly with PK WATER PLUG, force the bolt or fixture in, and tamp it firmly in place. Keep the area damp for 15–30 minutes and do not apply an excessive load for several hours.

Underwater Applications: Contact the PakChem Technical Service staff for detailed instructions.

LIMITATIONS

- PK WATER PLUG hardens in 3–5 minutes; prepare only enough for immediate use.
- Seal unused powder in airtight, moisture-proof containers for later use.
- Do not use as a topping or traffic-bearing repair mortar.
- PK WATER PLUG is not designed to be used as a structural or machine support grout. Consult PakChem Technical Service staff for recommendations.

STORAGE

Store in a tightly closed container in a cool, dry area. The shelf life of properly stored material is one year from the date of manufacture.

CAUTION

May cause eye and respiratory tract irritation. Overexposure may cause skin irritation. Do not take internally. Keep out of reach of children. All label precautions and the MSDS must be fully understood before using this product.

WARRANTY

This product is warranted to be free of defects in material and workmanship, and to conform to PakChem Construction Chemicals ("PakChem") quality control standards. All recommendations, statements, and technical data are based on tests believed to be reliable, but their accuracy and completeness are not guaranteed. No warranty of merchantability or fitness for a particular purpose is implied.

Satisfactory results depend on factors beyond PakChem's control. The user assumes all risk, loss, damage, expense, and liability resulting from the use or inability to use the product. PakChem's sole responsibility shall be to replace the portion of the product proved to be defective. Any warranty claim must be made within six (6) months from the date of the claimed breach. This limited warranty applies only if the product was properly stored, installed, and used according to instructions.

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