

PERMACAST® QUICK PLUG

Technical Data Sheet

A quick setting hydraulic cement compound used to stop running water or seepage leaks in masonry or concrete.

WHERE TO USE

- For exterior or interior use, above or below grade.
- To patch construction faults in precast and cast in place structures.
- To grout anchors, bolts.
- To form watertight covers at the junction of floors and walls.
- To stop running water or seepage through cracks in concrete sewer pipes, manholes, tanks, elevator pits and all concrete surfaces under hydrostatic water.

Permacast® Quick Plug can be used in structures such as:

- Basements
- Swimming Pools
- Elevator Pits
- Aquariums
- Pipes
- Conduits
- Storm Drains
- Sewer Pipes
- Tunnels
- Ducts
- Manholes
- Under Water Repairs

NOMINAL VALUES at 75° F

Initial Set	45- 60 sec.	
Final Set	1 min. 30 sec.	
ASTM C-109		
Compressive Strength	1 hour	1,500 psi
	24 hour	2,000 psi
	28 day	6,000 psi
ASTM C-157		
Length Change Moist Cure 28 day	.081%	

The Physical properties contained herein were obtained under laboratory conditions at 75° F. Physical properties obtained under field conditions may vary do to environmental variables. Data are subject to reasonable deviation.

INSTRUCTIONS FOR USE

Surface Preparation. Perform surface preparation compliance with:

- ICRI Guideline No. 03730, “Guide for Surface Preparation for the Repair of Deteriorated Concrete Resulting from Reinforcing Steel Oxidation
- ACI 224.1R93 “Causes and Repair of Cracks in Concrete Structure.” Concrete must be structurally sound. Loose or unsound concrete should be hammered out. Surfaces must be entirely free of oil, grease, paint, corrosion deposits, dust, laitance, or other surface contaminants. All dust or deposits produced during these procedures must be removed.

MIXING

Use clean water, container, and tools. Mix only a small amount at one time for immediate use. Mix to a thick dough-like or mortar consistency. After mixing, place the material within three minutes. Hot water accelerates set, cold water retards set. Use only one part water to four parts of Permacast® Plug (1:4) and mix to a stiff consistency. **DO NOT** add any foreign materials to the mix. **DO NOT** over water. This can cause bleeding or separation. **DO NOT** retemper.

PLACING

All holes or cracks should be opened to a minimum depth and width of 3/4” (19 mm) to allow enough material for proper expansion and bonding of the repair or plug. If possible, chip out area wider at the bottom than at the top. Metals such as aluminum or copper that will corrode due to their sensitivity to alkalis must be protected. Mix Permacast® Plug to stiff consistency, hold in hands until Permacast® Plug gets warm, then place firmly into the hole or crack and hold until material gets hard.

Patching. Mix Permacast® Quick Plug to plastic consistency. Water to Permacast® Quick Plug ratio by volume is approximately 1:4. Brush or trowel material into crack, voids, joints, etc.

Anchoring. Mix Permacast® Quick Plug to flowing consistency. Water to Permacast® Quick Plug ratio by volume is approximately 1:3. Prepare the hole and pour Permacast® Quick Plug into hole while setting bolts, dowels, or anchor.

LIMITATIONS

- **DO NOT** apply material to oily, greasy, or dusty surfaces or where efflorescence is present.
- **DO NOT** use more than can be put in place in 1 to 2 minutes.
- **DO NOT** add excessive amounts of water.
- **DO NOT** add cement or sand to extend set time.
- **DO NOT** use for non-treated aluminum or copper applications.
- **DO NOT** place at temperatures below 40°F or if the temperature is expected to fall below 40°F in the next twenty-four-hour period.

HAZARDS

Caution. Contains Portland Cement and sand. Cement will cause irritation. Avoid contact. Use of a dust respirator, safety goggles and rubber gloves are recommended. Avoid prolonged contact with clothing. In case of contact with eyes, immediately flush with water for at least 15 minutes. Get prompt medical attention. **DO NOT** wear contact lenses when working with this product. **DO NOT** take internally. Keep out of reach of children. Avoid hazards by following all precautions found in the Material safety Data Sheet (MSDS), product labels and technical literature. Please read this information prior to using the product.

PACKAGING

50 lb. Pail

RECEIVING

All bagged products should be checked for dryness prior to signing shipping papers.

STORAGE

Permacast® Quick Plug should be stored in a cool, dry interior area. At no time should material be exposed to high moisture, rain or snow conditions.

WARRANTY and DISCLAIMER

The technical data herein provided is compiled from laboratory specimens in accordance with ASTM Standards. Test results from specimens made in the field may vary. Although this data is believed to be reliable, APM, LLC makes no warranty express or implied, and further disclaims any liability as to the suitability of this information to a particular end use. This product is intended for use solely by our certified applicators.

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