

ATECH PLUS

Waterproofing Solutions

SAVVY ChemPLUG

Rapid Setting Waterproof Plug

Description

ChemPLUG is a fast setting, hydraulic compound that instantly stops running water or seepage through masonry surfaces. It actually becomes harder and more resistant when subjected to constant water pressure. ChemPLUG is a non-shrink material that expands slightly and sets in about 70 seconds depending on the temperature of the mixing water and the surface to which it is applied. Lower temperatures will retard the set time; higher temperatures will accelerate the set time.

Typical Applications

- Water cut-off
- Waterproof joint and crack surface sealant
- Pipe joints
- Emergency repairs
- Sealing cable and pipe entries
- Pointing in wet conditions

Characteristics

- Seals severe leaks.
- Will withstand extreme hydrostatic pressure.
- Exceptional durability.
- Non-shrink.
- Rapid setting (approximately 70 seconds).
- Can be applied under water.
- Reinforced.
- Suitable for concrete, brick or masonry structures.
- Can be shaped after application.

Mixing

ChemPLUG is a single component material requiring the addition of clean water. Add water to achieve a putty consistency by gloved hand mixing for 30 seconds. Mix only as much as can be applied in 60 seconds.

Note

Careful consideration should be given to application temperatures below 4°C on a falling thermometer. It may be advisable in low temperature to use warm water, above 25°C it is advisable to use cool water.

Application Guidelines

Always dovetail cut or cut square; do not use a V-cut. Open the crack or hole by cutting to a minimum depth and width of 20mm. Flush away all cuttings and dust. A dovetail will help key material.

To seal floor/wall joints.

Cut out the crack at least 20mm wide and deep, cutting back into wall slightly. Flush away all cuttings and dust. Force into the prepared crack with a round tool and smooth out. Form fillet at junction.

To seal flowing water.

Cut out crack or hole to a minimum depth and width of 20mm. Dovetail cut if possible. Start at the top and force ChemPLUG into the crack. At points of greater pressure, do not place into opening immediately. Hold in a gloved hand or on a trowel until slight warmth or drying occurs. Then press firmly into opening. Do not remove trowel or hand too soon. After stopping active water, patch evenly with surrounding wall surfaces.

To repair leaking mortar joints and cracks in masonry walls or cracks in concrete walls.

Cut out defective mortar joints or cracks to a minimum width and depth of 20mm. Dovetail cut if possible. Force ChemPLUG into the crack and keep damp for at least 15 minutes.

For holes, blister patches, honeycombing and other construction faults in concrete walls.

Remove all tie wires, wood or steel separators by cutting back from the surface to a depth of 25mm. Mix to the consistency of mortar and fill all holes, blisters, patches, honeycomb and other construction faults, flush with surrounding surfaces. Scratch the finish for later applications.

For anchoring bolts or metal posts in concrete or masonry.

Drill a hole deep enough to properly secure bolt or post and large enough so there is at least 13mm on all sides of the bolt or post. Fill the hole with ChemPLUG and tamp so that entire hole is full. Immediately centre bolt or post over the hole and force into the ChemPLUG 70. Tamp firmly around bolt or post; keep moist for 15 minutes. Apply no pressure to bolt or post for 6 hours.

Above normal temperatures.

From 20-35°C ChemPLUG begins to set very quickly. Material should not be heated above 30°C and mixing water over 25°C should never be used, otherwise set begins immediately and structural strength will be weakened, unless ChemPLUG is placed within 30-60 seconds after mixing. In extreme heat, use ice water for mixing to slow down the setting action.

Limitations

Very cold or very hot weather will retard or accelerate the ChemPLUG setting time.

Packaging

5kg, 15kg and 25kg pails and 25kg bags.

Storage

ChemPLUG must be stored above 5°C and below 35°C in dry conditions, off the ground and away from direct sunlight.

Shelf life is at least 6 months in original unopened packaging when stored correctly.

Health & Safety

ChemPLUG is alkaline. Protect hands with rubber gloves. Avoid contact with skin and eyes. Should this occur, flush with clean water. If irritation persists, contact a physician. See MSDS sheet for full details.

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Field Support

Field support where provided, does not constitute supervisory responsibility. Suggestions made by ATECH either verbally or in writing may be followed, modified or rejected by the owner, engineer or contractor since they and not ATECH are responsible for carrying out procedures appropriate to a specific application.

Customer Responsibility

The technical information and application advice given in this publication is based on the best information available at time of print. As the information herein is of a general nature, no assumption can be made as to the products suitability for a particular use or application and no warranty as to its accuracy, reliability or completeness either expressed or implied is given other than those required by Commonwealth or State Legislation. The owner, his representative or the contractor is responsible for checking the suitability of products for their intended use.

Safety Precautions

These products may cause allergic reactions through skin contact, goggles, protective gloves and overalls must be worn. Ensure that there is adequate ventilation and avoid breathing the vapour.

Exclusion Clause

1. The information contained in this data sheet is based on many years experience and is correct to the best of our knowledge. ATECH will be under no liability whatsoever whether in:
 - a) Contract or tort (including, without limitation, negligence)
 - b) Breach of statute
 - c) Any other legal or equitable obligation other than the quality of the product at the time of despatch.
2. Any queries about specification use or application should be directed to our technical service department immediately.
3. This exclusion clause does not operate to exclude any warranty that by law may not be excluded.



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