



Cemproof Plug

Rapid set waterproofing mortar.

DESCRIPTION

Cemproof Plug is a quick-setting cement based mortar that instantly stops running water from cracks, fissures, holes or other openings in concrete and masonry. It is non-shrink and sets within three to five minutes depending on the temperature. Once Cemproof Plug sets, it should be over coated with Crommelin[®] Cemproof Flex.

ADVANTAGES

Cemproof Plug delivers the following advantages;

- Does not shrink or become weak due to its exothermic reaction.
- Increases in volume, giving a permanent seal in areas where there is flowing water.
- Setting time can be controlled by adding warm or cold water. Setting may even be instantaneous by adding hot water during warm weather.
- Mechanical properties are similar or higher than concrete.
- Non-toxic, it can be used in contact with drinking water.
- Sets even underwater.
- Does not contain chlorides or other corrosive compounds.

AREAS OF USE

Cemproof Plug is suitable for use in the following areas;

- Basements & Tunnels
- Concrete Water Pipes
- Foundations
- Water Retaining Structures

SUBSTRATES

Cemproof Plug is suitable for application on;

- Concrete
- Brick
- Stone
- Concrete Blocks
- Render
- Light Weight Aggregate Block

TECHNICAL DATA (@ 25°C)

Mixing Ratio: 1kg: 0.28L of water

Coverage: (per coat) 1.62kg/L

Set Time: 5 minutes

Colour: Grey Powder

Clean Up: Water

Shelf Life: 12 months

ANCILLARY PRODUCTS

- Crommelin[®] Cemproof Flex

TEST DATA

Age	Mechanical Strength (MPa)	
	Flexural	Compressive
30 mins	1.2	3.8
3 days	3.7	22.5
7 days	5.7	36.2
28 days	5.2	40.7

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SUBSTRATE PREPARATION AND PRIMING

Full substrate preparation instructions can be found at www.crommelin.com.au/full-instructions/

- Surfaces must be clean, sound and free from dust, grease, curing compounds, release agents, loose particles, efflorescence, concrete laitance or any other contaminants
- If there is no water present at the time of application, dampen the surface before applying.

MIXING

- Mix only the amounts of Cemproof Plug that can be applied within 3 minutes under normal conditions.
- If flowing water is present, only the amount of material that can be applied by hand should be mixed.
- Fill a plastic container with the necessary amount of Cemproof Plug and add clean water, mixing slowly with a trowel until the consistency of cement mortar is achieved.
- Depending on weather conditions, 1kg of Cemproof Plug requires approximately 0.28L of water.

APPLICATION

Full application instructions can be found at www.crommelin.com.au/full-instructions/

- Sealing leaks in cracks or joints, prepare the surface by removing the loose or unsound concrete and cutting to a depth of 5cm. Cemproof Plug should be applied in small amounts that can be applied by hand. Do not pour the material in place; always apply by hand.
- Once Cemproof Plug is mixed, form the mixture into the shape of a plug and hold it in your hand until it becomes warm and then press Cemproof Plug firmly into the crack or joint but do not twist or overwork, maintain pressure with the hand until it sets and finally remove any excess material with a trowel.
- In large openings with high pressure such as tunnels and basements, begin the application at the top of the crack, where water pressure is lower, and proceed with the surrounding areas until the crack is finished, allowing Cemproof Plug to harden enough between the successive applications.
- Sealing joints between concrete slab and wall, this is a common situation in basements, elevator shafts, swimming pools and reservoirs. Along the concave corners a groove at least 2cm x 3cm must be opened and filled with Cemproof Plug in the shape of a waterproofing cove.
- Cracks or fissures must be opened to a minimum depth of 4cm and a width from 3cm to 4cm to provide a good mechanical key, make a square shaped groove; preferably dovetail to the surface to which the material is applied, avoid a "V" shape.

CLEAN UP

- Uncured material may be removed with warm water and detergent.
- Cured material may be removed mechanically.



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PRECAUTIONS

- Always wear gloves.
- The optimum setting time corresponds with the temperature range from 18 -20 degrees.
- Always clean and dry your tools before you take Cemproof Plug from the packaging.
- Do not mix the product with other materials or hardened product as the mixture characteristics may be modified.

TRANSPORT AND STORAGE

- Size: 1.25kg, 20kg
- Weight: 1.37kg, 20kg
- DG Class: N/A
- Flash Point: N/A
- UN Number: N/A
- Cool and Dry Storage

SAFETY AND FIRST AID

Cemproof Plug Safety Data Sheet is available from Crommelin® upon request.

Safety

- Ensure good ventilation and avoid breathing vapours.
- Avoid skin and eye contact. Wear gloves and eye protection. Remove splashes on skin immediately and remove contaminated clothing.
- Keep out of reach of children.
- Keep container sealed when not in use.
- Do not swallow.

First Aid

- If poisoning occurs, contact a doctor or poisons information centre: Ph 13 11 26.
- If swallowed, do not induce vomiting. Give a glass of water to drink.
- If in eyes, hold eyes open and flood with water for at least 15 minutes.
- If not breathing, apply artificial respiration.

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Any advice, recommendation, information, assistance or service provided by Crommelin® in relation to its products or their use is given in good faith, however is provided without responsibility or liability.

Customers need to undertake their own assessment to determine the suitability of a product for the intended use. As the performance of any product is subject to a wide variety of different surface types as well as environmental and surface-specific conditions, it is essential that a sample of the product be applied to the intended area of use to ensure it is acceptable in appearance and finish and that it performs as required on the specific surface.

Crommelin® also reserves the right to update information without prior notice, to reflect ongoing research and product development.



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