

# Cemproof Flex 1P

Cementitious negative side and waterproofing membrane.

## DESCRIPTION

Cemproof Flex 1P is a single-component, flexible cementitious waterproofing membrane formulated for use in negative side waterproofing applications.

Cemproof Flex 1P provides excellent waterproofing performance, whilst allowing the substrate to breath.

The powder is a mortar based on a mixture of cements, acrylic polymers, additives and well graded aggregates. Simply mix with water.

## ADVANTAGES

Cemproof Flex 1P delivers the following advantages;

- 1 part – just add water.
- Class I membrane.
- Suitable for use on damp substrates.
- Excellent adhesion.
- High abrasion resistance and UV stability.
- Good flexibility.
- Resistant to high negative hydrostatic pressure.
- Anti-fracture membrane between substrate and other finishing coats.
- Crack bridging – hairline and shrinkage cracks.
- Carbonation and electrochemical corrosion protection.
- Can easily be mixed in empty 20L pails.

## AREAS OF USE

Cemproof Flex 1P is suitable for use in the following areas;

- Basements & Tunnels
- Retaining Walls
- Balconies
- Planter boxes
- Foundations
- Swimming Pools
- Water Retaining Structures
- Podium Decks
- General Concrete Protection

## SUBSTRATES

Cemproof Flex 1P is suitable for application on;

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

## TECHNICAL DATA (@ 25°C)

Number of Coats:	2
Negative Pressure:	12 PSI 83 KPa 8.5m Head Pressure
Mix With:	Water
Mixing Ratio:	<b>15kg powder mixed with 4.5L of potable water</b> – provides a combined 18L of membrane. (1kg powder to 300ml water)
Pot Life:	30 mins
Coverage: (per coat)	Min. 1L mixed product / m <sup>2</sup>
Wet Film: (per coat)	Min. 1,000 microns
Recoat:	24 hours
Tile/Screed/Overcoat:	72 hours
Full Cure:	7 – 14 days
Colour:	Grey Powder
Clean Up:	Water
Shelf Life:	12 months

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## ANCILLARY PRODUCTS

- Crommelin® Polyfab – reinforcing fabric
- Crommelin® Contractor Membrane Applicator Brush – 100mm, 75mm
- Crommelin® Contractor Membrane Roller Cover – 230mm

## SUBSTRATE PREPARATION AND PRIMING

Full substrate preparation instructions can be found at [www.crommelin.com.au/full-instructions/](http://www.crommelin.com.au/full-instructions/)

- The surface should have a light even texture. Masonry should be flush pointed and all defects in existing surfaces made good.
- Surfaces must be clean, sound and free from dust, grease, curing compounds, release agents, loose particles, efflorescence, concrete laitance or any other contaminants.
- High pressure water cleaning or sandblasting is recommended.
- All high points and protrusions should be removed, blow-holes and areas of honeycombing should be filled and the surface should be brought back to an even profile using a suitable repair mortar.

**Note: Due to the wide variety of substrates available, adhesion testing is recommended in a trial area before full application.**

**Note: Cemproof Flex 1P should only be applied to wet surfaces, surface saturated, but without standing water.**

It is recommended that only workable areas are wetted down prior to application to ensure that the immediate surface to be coated remains sufficiently hydrated.

## APPLICATION CONDITIONS

- Pot life when mixed with water between 30 – 60 minutes, dependent upon temperature and humidity.
- Application temperature between 7°C - 35°C.

If working during high temperature conditions (25°C - 35°C) direct sunlight should be avoided during application and curing.

- If working during high temperature conditions (25°C – 35°C) ensure that product is not be stored in direct sunlight or an excessively hot environment before mixing and application.
- Do not apply below 7°C surface temperature, or if low temperatures are expected within 24 hours.
- Do not apply if relative humidity is above 85% during initial cure phases, or if rain is expected before cure

## MIXING

- Cemproof Flex 1P is supplied in a 15kg bag, and simply needs to be mixed with water.
- Powder and water can be mixed in an empty 20L pail.
- It is recommended to always mix the full 15kg bag with water to ensure correct product ratios. Diluting further than specified rate or thinning is not recommended.
- If part bags are mixed, it is important that mix ratios are accurate (1kg powder : 300ml water). We do not recommend mixing part of the bag without using accurate weighing equipment.

**Note: The addition of excessive liquid will increase cure time, negatively affect membrane hardness, lower abrasion resistance and may lead to the formation of air bubbles once the coating is under water immersed conditions.**

**Note: The addition of excessive powder will reduce membrane workability resulting in too high film builds that may lead to cracking.**

- Always add powder to liquid, never liquid to powder.
- Pour half of measured water into a clean pail large enough to contain the liquid and powder. Gradually add half of the powder into the pail whilst mixing with a low speed mixing drill (400 – 600 rpm). Mix until homogenous and free of lumps.
- Add remaining water to the pail and mix until homogenous. Gradually add the remaining powder into the pail and continue to mix for between 3 – 5 minutes until a homogenous, lump free consistency is achieved.
- Properly mixed Cemproof Flex 1P should be grey in colour, smooth in consistency and easily applied by a roller.
- Allow to rest for minimum 2 minutes. Immediately prior to application, mix for a further 30 seconds.

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**Note:** Thorough mixing is important to provide a smooth and workable consistency. Ineffective mixing procedure, mix ratios and mixing times will result in a stiff and unworkable membrane consistency.

## APPLICATION

Full application instructions can be found at [www.crommelin.com.au/full-instructions/](http://www.crommelin.com.au/full-instructions/)

- 50mm mortar cove, treated with Crommelin Powerflex is required at all wall to floor and wall to wall joints.
- Apply Cemproof Flex 1P with Crommelin® Contractor Membrane Brush, Crommelin® Contractor Membrane Roller or similar. Membrane can be trowelled to provide a smoother finish – ensure minimum film thickness is achieved.
- Apply first coat of Cemproof Flex 1P as per recommended coverage rate. Work from corners to central areas and allow to dry.
- It is recommended to install Crommelin® PolyFab Reinforcing Fabric to all joints and corners in conjunction with first coat of Cemproof Flex.
- Wet surface with water again before the application of second coat.
- Apply second coat of Cemproof Flex 1P as per recommended coverage rate, at 90° to the first coat.
- A third coat should be applied at the recommended coverage rate to irregular and uneven surfaces, or if any pinholes, cracks or other uneven application is present.
- Allow to cure for a minimum of 72 hours, before the application of a screed or the commencement of tiling.
- If rendering over, first prime the cured Cemproof Flex 1P with Crommelin Acrylic Modifier. Then mix in Crommelin Acrylic Modifier as an additive into render to improve adhesion, tensile, flexural, impact and compressive strengths. Refer to the Crommelin Acrylic Modifier Technical Data Sheet for coverage & dilutions rates.

## CLEAN UP

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

## MAINTENANCE SCHEDULE AND REPAIR

- Cemproof Flex 1P must be protected from damage by after trades and inspected prior to the application of any over coat.
- Any damage or areas of cracking may be repaired by over coating the affected area as per recommended coverage rates.
- Protect membrane from harsh chemicals, abrasion and other potentially damaging conditions.

## PRECAUTIONS

- Do not apply if the temperature is below 7°C or relative humidity is above 85% or if rain is imminent.
- Ensure adequate ventilation and air flow to optimise membrane curing.
- Protect against quick drying by wind or direct sunlight and high temperatures by fog spraying with water for two hours after each application.
- If used in a potable water application, ensure that the surface of the membrane is thoroughly washed down before being put into service.

## WARRANTIES

A standard warranty period of 10 years is offered for Crommelin® Cemproof Flex 1P.

Extended warranties are available for project specific applications. Please contact your Crommelin® representative, or the Crommelin® technical support team for detailed specifications applicable to your project and warranty requirements.

## TRANSPORT AND STORAGE

- Size: 15kg Kit
- Weight: 15kg
- DG Class: N/A
- Flash Point: N/A
- UN Number: N/A
- Cool and Dry Storage

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## **SAFETY AND FIRST AID**

Cemproof Flex 1P 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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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.