



# Cemproof Ultra Flex-300

Class III, highly flexible, cementitious waterproofing membrane.

## DESCRIPTION

Cemproof Ultra Flex-300 is a two component, flexible cementitious waterproofing membrane formulated for use in positive side waterproofing applications.

Component A is a water based acrylic resin. Component B is a mortar, based on a mixture of cements, tough HDPE fibres, additives and well-graded aggregates.

## ADVANTAGES

Cemproof Ultra Flex-300 delivers the following advantages;

- High elongation – Class III.
- Positive side waterproofing.
- Excellent adhesion.
- High abrasion resistance and UV stability.
- Good flexibility.
- Non-toxic and chloride free.
- Resistant to high positive hydrostatic pressure.
- Anti-fracture membrane between substrate and other finishing coats.
- Crack bridging – hairline and shrinkage cracks.
- Carbonation and electrochemical corrosion protection.

## AREAS OF USE

Cemproof Ultra Flex-300 is suitable for use in the following areas;

- Planter Boxes
- Swimming Pools
- Balconies
- General Concrete Protection
- Podium Decks

## SUBSTRATES

Cemproof Ultra Flex-300 is suitable for application on;

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

## TESTING APPROVALS AND STANDARDS

Cemproof Ultra Flex-300 is compliant with the following standards;

- Green Star - Design & As Built v1.1: Indoor Pollutants 13.1 Paints, Adhesives, Sealants and Carpets.
- APAS 181 – V.O.C limits.

## TECHNICAL DATA (@ 25°C)

Number of Coats: 2

Mixing Ratio: 1:1 by weight

Coverage: Floors: 1.4kg (1L) mixed kit/m<sup>2</sup>  
(per coat) Walls: 0.85kg (0.6L) mixed kit/m<sup>2</sup>

Wet Film: Floors: 1000 microns  
(per coat) Walls: 600 microns

Recoat: 30 minutes

Tile/Screed/  
Overcoat: 12 hours

Full Cure: 7 – 14 days

Colour: White Liquid/Grey Powder

Clean Up: Water

Shelf Life: 12 months

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## ANCILLARY PRODUCTS

- Crommelin® Hybrid MS Polyurethane Sealant – 600ml
- Crommelin® Silicone & Bond Breaker Sealant – 300ml
- Crommelin® Polyfab – reinforcing fabric
- Crommelin® Polyfab BB – bond breaker
- Crommelin® Contractor Membrane Applicator Brush – 100mm, 75mm
- Crommelin® Contractor Membrane Roller Cover – 230mm
- Crommelin® Moisture Meter

## TEST DATA

Properties	Measurement /Standard	Test Results
Adhesion	ASTM D-4541	Concrete - 1.5N/mm <sup>2</sup>
Elongation	AS 1145	315% ± 5%
Flexibility	AS 1580.402.1	2mm
VOC	APAS D181	0g/L
Tensile Strength	AS 1145	1000 kPa

## 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, dry, sound and free from dust, grease, curing compounds, release agents, loose particles, efflorescence, concrete laitance or any other contaminants.
- 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.**

- Substrates that are porous and/or slightly dusty should be primed with a 1:1 mix of Crommelin Acrylic Modifier and water.
- Cemproof Ultra Flex-300 may be applied to damp surfaces, but without standing water.

## APPLICATION CONDITIONS

- Pot life 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 has not been stored in direct sunlight or an excessively hot environment before mixing and application.
- Do not apply if relative humidity is above 85% during initial cure phases, or if rain is expected before cure.
- In very hot and dry conditions, dampen substrate with water prior to application.

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## MIXING

- Cemproof Ultra Flex-300 is supplied in two pre-measured components.
- It is recommended to always mix full kits to ensure correct product ratios. Thinning is not recommended.
- If part kits are mixed, it is important that mix ratios are accurate (1:1 by weight). We do not recommend mixing part kits 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 all of Part A Liquid into a clean pail large enough to contain a full kit. (Minimum 20L pail) Gradually add all of Part B Powder into the pail whilst mixing with a low speed mixing drill (400 – 600 rpm). Mix until homogenous and free of lumps.
- Properly mixed Cemproof Ultra Flex-300 should be light grey in colour, smooth in consistency and easily applied by a roller.

**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/)

- Apply Crommelin® Polyfab BB or Bond Breaking Sealant to internal angles/corners (wall & floor junction) and vertical angles/corners (wall & wall junction) as per standard.
- Apply Cemproof Ultra Flex-300 with Crommelin® Contractor Membrane Brush, Crommelin® Contractor Membrane Roller or similar.
- Apply first coat of Cemproof Ultra Flex-300 as per recommended coverage rate. Work from corners to central areas and allow to dry.
- If only a bond breaking sealant has been used, it is recommended to install Crommelin® PolyFab Reinforcing Fabric to all joints and corners in conjunction with first coat of Cemproof Ultra Flex-300.
- Apply second coat of Cemproof Ultra Flex-300 as per recommended coverage rate, at 90° to the first coat.
- Allow to cure for a minimum of 12 hours, before the application of a screed or the commencement of tiling.
- If pond testing is required, allow to dry for a minimum 48 hours (depending on weather conditions) to ensure adequate curing. Pond test with water to a depth of 25mm for 2 hours. After testing ensure area is drained and dried.

## CLEAN UP

- Uncured material may be removed with warm water and detergent.
- Cured material may be removed mechanically.
- Cured material may be softened by soaking in Crommelin® HD Cleaner before attempting removal.

## MAINTENANCE SCHEDULE AND REPAIR

- Cemproof Ultra Flex-300 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.

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## 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.
- When used in tiled pools or areas subject to chlorinated water, an epoxy grout is required to withstand the permanently wet conditions and harshness of chemicals.

## WARRANTIES

A standard warranty period of 10 years is offered for Crommelin<sup>®</sup> Cemproof Ultra Flex-300.

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

## TRANSPORT AND STORAGE

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

## SAFETY AND FIRST AID

Cemproof Ultra Flex-300 Safety Data Sheet is available from Crommelin<sup>®</sup> 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<sup>®</sup> 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<sup>®</sup> also reserves the right to update information without prior notice, to reflect ongoing research and product development.

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