

Crommelin®

Waterproofing Australia Since 1957



Waterproofing Membranes

Product Guide

Why waterproof

- Waterproofing keeps water where you want it and out of where you don't.
- Protect your home from structural and cosmetic water damage.
- Prevent dangerous and unsightly mould and mildew.
- Promote long term building comfort and performance.
- Save money by avoiding difficult and costly repairs.



Planning to waterproof

- What are you waterproofing?
- What key performance features do you need?
- Is your drainage design adequate for your project?
- Do you require positive or negative side waterproofing?

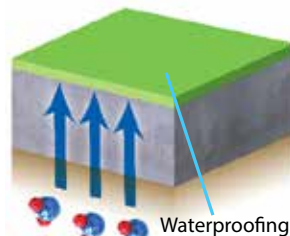
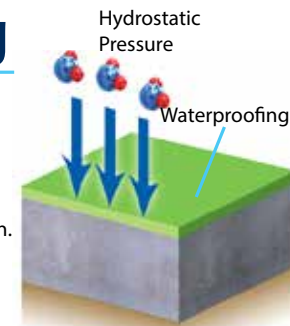
Positive or Negative Waterproofing

Positive side waterproofing

- When movement of moisture is from the front of the waterproofing coating, effectively pushing the membrane onto the substrate.
- Both positive and negative waterproofing membranes may be used in this situation.
- Correct film thickness of coating must be applied to ensure waterproofing performance.

Negative side waterproofing

- When movement of moisture comes through the substrate, behind the waterproofing, effectively trying to push the membrane off of the substrate.
- Only use waterproofing coatings specifically engineered for negative hydrostatic pressure situations.
- Correct film thickness of coating must be applied to ensure waterproofing performance.



Hydrostatic Pressure

Where am I waterproofing



Below ground and non-exposed waterproofing

- Membrane must be applied to the positive side of the structure.
- Substrate must be completely dry and correct film thickness is vital.
- Membrane must be protected from damage during back filling.
- Suitable applications include retaining walls, timber posts, planter boxes and pots.
- Suitable substrates include concrete, brick, timber, metal and most other common construction materials.



Wet area and under-tile waterproofing

- Membrane must be applied to the positive side of the structure.
- Substrate must be completely dry and correct film thickness is vital.
- Tiles may be directly adhered to membrane.
- Suitable applications include showers, bathrooms, kitchens, wet areas, balconies and swimming pools (in conjunction with epoxy grout).
- Suitable substrates include concrete, brick, timber, ply, cement sheeting and most other common construction materials.



Exposed area waterproofing

- Membrane must be applied to the positive side of the structure.
- Only highly durable membranes with good UV resistance should be used.
- Substrate must be completely dry and correct film thickness is vital.
- Suitable applications include roof decks, gutters and gardens, balconies and terraces prior to over coating.
- Suitable substrates include concrete, brick, timber, metal, cement sheeting and most other common construction materials.



Damp substrates and negative side waterproofing

- Membrane may be applied to either positive or negative side of the structure.
- Substrate may be damp, but without standing water.
- Correct film thickness is vital.
- Suitable applications include water retaining structures, basements, retaining walls, high traffic areas and damp substrates.
- Suitable substrates include concrete, brick, timber, cement sheeting and most other common construction materials.

When to waterproof

- Waterproofing should be included as part of any construction, and shouldn't be a secondary thought.
- Only be applied to dry and sound substrates.
- Only waterproof when the correct membrane has been chosen for the project.

When not to waterproof

- When the substrate is damp (unless suitable product is chosen).
- When the substrate is dusty or friable.
- During times of temperature extremes – hot or cold.
- If rain of high humidity is expected during cure phase.

Surface preparation

Surfaces must be clean

- Remove all surface contaminants, including dirt, dust, grease, mould, cement laitance and curing compounds.
- If surface has been ground, remove dust by vacuum and pressure wash or wet vac.
- A clean surface is important to help avoid compromised membrane adhesion and delamination.
- If surface contaminants cannot be removed, use Crommelin® Dampstop as a primer before applying membrane.

Surfaces must be sound

- Dusty or friable surfaces must be primed prior to membrane application for maximum membrane adhesion.
- Surface imperfections should be removed or made good with suitable repair mortar. Surface protrusions must be removed to provide a smooth surface for membrane application.

Surfaces must be dry

- A moisture test must always be done to ensure that substrate is dry enough to waterproof.
- The use of a Crommelin® Moisture Meter is recommended.
- If the substrate is damp, use Crommelin® Dampstop as a primer before applying membrane.
- Waterproofing damp substrates can compromise adhesive strength and cause bubbles and blisters.

Drainage

- Adequate falls and drainage must form part of any building design.
- Inadequate drainage can cause membrane failure and costly water damage.

Previously waterproofed surfaces

- Ensure that the existing coating is well adhered to substrate and compatible with the new membrane.
- Areas of damage or leaking should be repaired. Remove existing membrane before re-application if required.

Membrane application

- Correct waterproofing membrane should be chosen for the project, service and substrate.
- Reinforcement of construction joints and corners is recommended with Crommelin® Reinforcing Fabric.
- Apply membrane with Crommelin® Contractor Membrane Applicator Brush or Roller to ensure optimum membrane delivery.
- Ensure that environmental conditions, including temperature and humidity, are suitable for membrane application.
- Always apply membrane at the correct coverage rate to ensure correct film thickness.
- Apply second coat at 90° to the first to ensure full coverage.
- Ensure membrane does not become too thick at corners.
- Provide adequate ventilation and air flow to assist cure.
- Do not expose to water until full cure has been achieved.
- Protect membrane from damage during back filling or over-coating. Do not overcoat until full cure has been achieved.

Where?	Product	Type	Colour
Wet Areas & Under Tile Class 3 - bathrooms, balconies, laundries etc.	Shower Waterproofing Membrane	Styrene butadiene rubber	Green
	Rapid Under-tile Waterproofing Membrane	Styrene butadiene rubber	Grey
	Shower Waterproofing Kit	Styrene butadiene rubber	Green
	Flex-300	2 part cementitious	Grey
Below Grade - Non Critical Planter, pots, retaining walls etc.	Blackseal	Bitumen	Black
	Water Based Bitumen Paint	Bitumen Modified	Black
Below Grade - Critical Retaining walls, basements, planter boxes etc.	Exterior Grade Waterproofing	Styrene butadiene rubber	Grey
Above ground - non-exposed Podium decks etc.	Exterior Grade Waterproofing	Styrene butadiene rubber	Grey
Water Features Ponds etc.	Pond Sealer	Styrene butadiene rubber	Black, Sandstone, Blue
Permanent Water Immersion - fire tanks etc.	Exterior Grade Waterproofing	Styrene butadiene rubber	Grey
Negative side / damp substrates	Trowel on Waterproofing	2 part cementitious	Grey
	Dampstop	2 part water borne epoxy	Grey
Concrete decks Car parks, balconies, bridges etc.	Shower Sealer	Sodium silicate	Clear
Primers Adhesion promoters and surface consolidators	Dampstop	2 part water borne epoxy	Grey
	Tile-on-tile - non-porous surface	Acrylic modified adhesion promoter	Blue
Accessories	Contractor Polyurethane Sealant (bond breaker)	Polyurethane	Grey
	Silicone WP Plus (bond breaker)	Silicone	Grey / White / Translucent
	Moisture Meter	n/a	n/a
	Reinforcing fabric	Non-woven polyester	n/a
	Reinforcing Fabric BB (bond breaker)	Non-woven polyester	n/a
	Contractor Applicator Brush	75mm / 100mm	n/a
	Contractor Applicator Roller	230mm	n/a

Wet area & under-tile

Rapid Re-Coat PU Modified

- Rapid re-coat in 1 hour, tile over in 24 hours.
- Premium long term performance.
- Coverage: 2m² / L / coat | 2 coats | Packaging: 1L, 4L, 15L.
- Class III to AS 4858.
- Suitable for all under-tile applications.

Flex-300 Under-Tile Waterproof Membrane

- For cold and humid conditions and when substrate is not dry.
- Class III, 2 part cementitious.
- Re-coat in 30 minutes, tile over in 12 hours.
- Coverage: 0.9kg / m² / coat on walls, or 1.3kg / m² / coat on floors | 2 coats.
- Packaging: Part 1 Liquid 10kg and Part 2 Powder 10kg.
- Easy mixing ratio 1:1 by weight.
- Very high elongation and permanent flexibility.

Shower Waterproofing Membrane

- Class III membrane.
- Excellent primer-less adhesion and fast drying.
- Seamless application for leak free performance.
- Coverage: 2m² / L / coat | 2 coats | Packaging: 1L, 4L, 4L Kit, 6L Kit, 15L.
- High elongation and permanent flexibility.
- Keyed finish, suitable for use with all cement based tile adhesives.

Tile-on-Tile Primer

- One coat primer used to improve adhesion to non-porous, smooth, dense and difficult to adhere to substrates.
- Coverage: 15m² / L / coat | 1 coat | Packaging: 1L, 4L.
- Inexpensive renovations – simply prime then tile-on-tile.
- Tough, textured finish with excellent adhesion.

Liquid Reinforcing Fabric

- Fibre reinforced waterproofing membrane for wet area and non-exposed application.
- Replaces traditional reinforcing bandages.
- Coverage: 2m² / L / coat | 2 coats | Packaging: 1L, 4L.
- Strengthens membrane against puncture and tears at corners and construction joints.
- Fast and easy to apply.

Shower Sealer & Waterproofer

- Penetrative waterproofing solution to fix leaking showers.
- Permanently waterproofs old and porous tile grout.
- Coverage: 500ml will treat two average showers (approx. 200-300LM of 5mm grout) | 1 coat | Packaging: 500ml.
- Invisible protection.
- Interior and exterior application.

Exposed

Exterior Grade Waterproofing

- UV resistant waterproofing membrane.
- Suitable for over coating with acrylic paints and renders.
- Coverage: 1.5m² / L / coat | 2 coats | Packaging: 1L, 4L, 15L.
- High elongation and flexibility.
- Potable water safe.

Pond Sealer - Colours

- Textured decorative waterproofing membrane.
- Highly flexible and may be tiled over.
- Coverage: 1.5m² / L / coat | 2 coats | Packaging: 1L, 4L | Available in Black, Sandstone and Blue.
- Fish and plant safe formulation.
- In ground ponds must be primed first with Dampstop.

Pond Sealer - Clear

- Clear waterproofing treatment.
- Non-flexible.
- Coverage: 6-10m² / L / coat | 3 coats | Packaging: 1L.
- Fish and plant safe formulation.
- Excellent adhesion to substrates.

Damp substrates and negative side

Dampstop

- Two part water borne epoxy waterproof barrier.
- Suitable for positive and negative side and damp surface waterproofing.
- Coverage: 5-7m² / L / coat | 2 coats | Packaging: 2L kit.
- Also suitable as a tough coating for high traffic floors.
- Over-coatable with Crommelin® waterproofing membranes and most acrylic paints.

Trowel on Waterproofing

- Two part cementitious waterproofing membrane.
- Suitable for negative and damp substrate waterproofing.
- Coverage: 0.75 - 1m² / kg / coat | 2 coats | Packaging: 14kg kit.
- Remains permanently flexible.
- May be over-coated with acrylic paints and renders.

Below ground and non-exposed

Blackseal

- Non-exposed waterproofing membrane.
- Suitable for retaining walls, timber posts etc.
- Coverage: 1.5m² / L / coat | 2 coats | Packaging: 4L, 20L.
- Long term durability and permanent flexibility.
- Fast drying.

Water Based Bitumen Paint

- Non-exposed waterproofing membrane.
- Suitable for planter boxes, pots and water tanks.
- Coverage: 1.5m² / L / coat | 2 coats | Packaging: 1L, 4L, 15L.
- Excellent substrate adhesion.
- Potable water safe.



Accessories

Moisture Meter

- Determine if substrate is dry enough to waterproof.
- Simple to use.
- Concrete and timber modes.

Contractor Applicator Brush

- Suitable for use with Crommelin® membranes.
- Optimum coating pick up and release.
- Size: 75mm and 100mm.

Contractor Applicator Roller

- Suitable for use with Crommelin® membranes.
- Optimum coating pick up and release.
- Size: 230mm.

Reinforcing Fabric

- Non-woven, rot proof 100% polyester.
- Superior elongation compared to fibre glass mat.
- Increases membrane strength and puncture resistance.
- Packaging: 100mm x 10m rolls, 100mm x 50m rolls, and 200mm x 50m rolls.

Reinforcing Fabric with Bond-Breaker

- Self adhesive polyester fabric tape.
- Acts as a bond breaker over movement critical joints and corners.
- For use with all Crommelin® under-tile waterproofing membranes to meet AS3740.
- Packaging: 100mm x 6m.

Contractor Polyurethane Sealant

- Permanently flexible with ± 25% movement capability.
- Excellent substrate adhesion.
- High recovery rate.
- For use as a bond breaker or general purpose construction sealant.
- Packaging: Grey 600ml.

Silicone WP Plus

- Neutral cure, anti-fungal formulation.
- Sanitary grade for interior and exterior use.
- Excellent adhesion.
- Permanently flexible with ± 25% movement capability.
- Packaging: White / Grey / Translucent 300g cartridges.

Contractor Sealer Applicator Wheel

- Attaches directly to Crommelin® Grout Sealer and Shower Sealer & Waterproofers bottles.
- Fast, clean and accurate sealer application.
- Packaging: 3mm, 5.5mm wheels in each package.

High Performance Bonding Agent

- Primer for cementitious surfaces prior to waterproofing.
- Promotes adhesion of waterproofing membranes to substrate.
- Reduces substrate porosity.
- Also suitable for use to improve performance of cement mortars and renders.
- Coverage: 6-10m² / L | 2 coats | Packaging: 1L.

How to fix leaking showers

Suitable substrates

- Grout.
- Concrete.
- Mortar.
- Most cementitious materials.

Product to use

- Crommelin® Shower Sealer & Waterproofers.

Surface preparation

- All surfaces must be completely dry, clean and sound.
- Any loose grout must be removed and repaired as per manufacturer's instructions.
- The longer you can leave the shower to dry out, the greater the penetration of the sealer.

Application tools

- Crommelin® Contractor Applicator Wheel.
- Small brush.

Coverage

- 500ml is enough material to treat 2 average sized shower cubicles.

Re-coat / cure time (at 25°C)

- One coat system.
- Must be watered in between 30 minutes and 4 hours after application.

Tips

- Do not let product dry on the surface of the tiles, remove with a damp cloth.
- Ensure that all wall to floor and wall to wall joints are sealed with flexible sanitary grade silicone sealant and not rigid grout.
- Double thickness mask each side of silicone joint with masking tape, to ensure that a thick edge to silicone is maintained once smoothed.

How to waterproof fish ponds

Suitable substrates

- Concrete.
- Brick and Render.
- Cement sheet.

Products to use

- Crommelin® Pond Sealer Colours - Black, Blue and Sandstone.
- Crommelin® Pond Sealer Clear - for above ground water features only.

Surface preparation

- All surfaces must be completely dry, clean and sound.
- If pond is in-ground, a negative side membrane such as Crommelin® Dampstop should be used before the application of Crommelin® Pond Sealer Colours.
- Reinforcing fabric and bond breakers should be used in all wall to floor, wall to wall and construction joints.

Application tools

- Crommelin® Contractor Applicator Brush or Roller.

Coverage

- Coverage rates will depend upon surface porosity.
- Pond Sealer Colours – 1L will cover approximately 0.75m² finished.
- Pond Sealer Clear – 1L will cover approximately 3-5m² finished.

Re-coat / cure time (at 25°C)

- A minimum of 2 coats of Pond Sealer Colours are required.
- Allow 2-4 hours between coats of Pond Sealer Colours and 4 hours between coats of Pond Sealer Clear.
- A third coat may be required to reach required membrane thickness.
- Apply second coat at 90 degrees to the first.
- For all Pond Sealer membranes, allow 7 days for full cure before filling your water feature.



How to waterproof retaining walls & planter boxes

Suitable substrates

- Concrete.
- Brick & masonry.
- Render.
- Timber and timber panels.

Product to use

- Crommelin® Water Based Bitumen Paint.

Surface preparation

- All surfaces must be completely dry, clean and sound.
- If surface remains damp, use Crommelin® Dampstop as a primer.
- Surface defects must be removed or filled with suitable repair mortar.
- Suitable bond breaker and reinforcing fabric should be installed in all wall to floor, wall to wall and construction joints.

Application tools

- Crommelin® Contractor Applicator Brush or Roller.

Coverage

- Coverage rates will depend upon surface porosity.
- 1L will cover approximately 0.75m² finished.

Re-coat / cure time (at 25°C)

- 2 coats are required.
- Allow 30 minutes drying time between coats.
- Allow 7 days for full cure and before back filling.

Tips

- Ensure that membrane is protected from puncture during back filling by installing corflute or other protection board.
- Crommelin® Water Based Bitumen Paint is not suitable for use as an under tile membrane or in UV exposed conditions.

How to waterproof brick walls & masonry surfaces

Suitable substrates

- Concrete.
- Brick & masonry.
- Render.
- Natural stone.

Products to use

- Crommelin® Natural Finish Sealer.

Surface preparation

- All surfaces must be completely dry, clean and sound.
- Surface defects must be removed or filled with suitable repair mortar.
- Ensure that any areas of mould growth are effectively treated with appropriate cleaning chemicals.

Application Tools

- Crommelin® Contractor Applicator Brush or Roller.
- Garden spray.

Coverage

- Coverage rates will depend upon surface porosity.
- 1L will cover approximately 3-5m² finished.

Re-coat / cure time (at 25°C)

- 2 coats of Natural Finish Sealer are required.
- Allow 30 minutes drying time between coats.
- Protect surface for at least 24 hours from exposure to rain and moisture.
- Allow 7 days for full cure.

Tips

- Conduct a moisture test before application to ensure maximum penetration of sealer into substrate.
- Do not apply a penetrating sealer over a satin or gloss topical sealer. The penetrating sealer will remain on the surface and become sticky.

How to permanently prevent leaking showers

Suitable substrates

- Concrete.
- Brick.
- Cement Sheeting.
- Render.
- Timber Panel.

Product to use

- Crommelin® Shower Waterproofing Kit 4L or 6L.

Surface preparation

- All surfaces must be completely dry, clean and sound.
- Surfaces may be primed with a 50:50 solution of the supplied membrane and clean water, or for maximum membrane adhesion prime with Crommelin® High Performance Bonding Agent.

Application tools

- Crommelin® Shower Waterproofing Kits contain all the necessary tools required.

Coverage

- 4L Kit will waterproof a single shower recess.
- 6L Kit will waterproof a double shower recess.

Re-coat / cure time (at 25°C)

- 2 coats of Crommelin® Shower Waterproofing Membrane are required.
- Apply second coat at 90 degrees to the first coat.
- Allow 2-4 hours drying time between coats.
- May be tiled over after 48 hours.

Tips

- Ensure adequate air flow during the membrane cure phase. The use of fans to circulate air is recommended.
- Pre-cut supplied reinforcing fabric prior to installing in corners and around drainage outlets.
- Do not allow membrane application to become too thick in corners, leading to reduced flexibility.
- Always ensure the correct use of bond breaking tape.

How to fix damaged and leaky gutters

Suitable substrates

- Metal.
- Concrete.
- Plywood.
- Cement sheet.

Products to use

- Crommelin® Exterior Grade Waterproofing.

Surface preparation

- All surfaces must be completely dry, clean and sound.
- If surface is rusty, treat area with suitable treatment to ensure that all rust material has been removed.

Application Tools

- Crommelin® Contractor Applicator Brush or Roller.

Coverage

- Coverage rates will depend upon surface porosity.
- 1L of product will cover approximately 0.75m² finished.

Re-coat / cure time (at 25°C)

- A minimum of 2 coats are required.
- Apply second coat at 90 degrees to the first.
- A third coat may be required to reach required membrane thickness.
- Allow 2-4 hours between coats.
- Allow 48 hours before exposing membrane to moisture.

Tips

- Any areas of gutter damage, pin holing or rust should be reinforced using Crommelin® Reinforcing Fabric, installed as part of the first coat.
- Ensure that membrane remains free of gutter debris and that water flow across the area is not impeded.
- Crommelin® Exterior Grade Waterproofing may be overcoated with most acrylic paints and renders.

Waterproofing Membrane Maintenance

- After membrane application, ensure that no damage has been caused by after trades before the installation of any top coating, screed or tiled finish.
- Regularly remove debris from drainage to ensure that the passage of water remains free flowing.
- Inspect exposed waterproofing membranes regularly and ensure that all contaminants such as animal waste and leaves etc. are removed.
- Any areas of damaged membrane should be repaired as soon as identified.
- If repair is required, ensure that compatible products and systems are used. If in doubt, contact the Crommelin® 7 day a week help line on 1800 655 711.
- Do not expose waterproofing membranes to highly concentrated chemicals, abrasion or other potentially damaging conditions.
- For troubleshooting purposes, refer to the Crommelin® website for:
 - Full Instruction Guide.
 - Safety information.
 - How To Videos.
 - Membrane cracking.
 - Delamination.
 - Blisters and bubbles in membrane.
 - Insufficient film thickness.
 - Slow curing.
 - Re-emulsification.
 - Tearing and puncture.



Still not sure?
Simply call our 7 day a week helpline 1800 655 711.

Email service@crommelin.com.au
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