



# Aquaproof 121

Unique Flexible One Component Cementitious Waterproof Membrane

## Features

- ▶ One Component
- ▶ Potable Water Applications
- ▶ Crack Bridging
- ▶ Flexible
- ▶ Superior Adhesion
- ▶ Basements
- ▶ Lift Pits
- ▶ Roof Tops
- ▶ Cellar Walls
- ▶ Bonds to Damp Surfaces
- ▶ No Primer Required

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### Product Description

**Aquaproof 121** is a unique flexible one component waterproof membrane that is suitable for a wide range of positive and negative waterproofing applications.

Based on advanced cross linking polymer technology, **Aquaproof 121** is a standalone flexible polymer cementitious membrane that does not require the addition of any liquid additive, requiring only water added to powder to form a high quality liquid membrane slurry system. Ideally suited over concrete, masonry and mineral substrates. The cured film provides a water tight membrane that is permeable to vapour diffusion and offers excellent resistance to frost and ageing, as well as outstanding adhesion properties.

### Features & Benefits

- 1 component flexible cementitious membrane
- Handles positive water pressure of up to 6 bar
- Handles negative water pressure of up to 1.5 bar
- No primer required, bonds to dampened surfaces
- Approved for potable water applications to international standards
- Resistant to aggressive effects on concrete, such as salts and carbonation
- Can be applied on vertical and horizontal surfaces, excellent non-sag properties
- Crack bridging properties up to 1mm
- Can be applied by brush, roller, sprayer or trowel
- Compatible bonding properties for concrete toppings, screeds, masonry renders and tile adhesives
- Suitable for internal, underground, immersed and external surfaces
- Cost effective and ease of quality control as a 1 component product with addition of site water only, eliminating dilution risks

### Uses

- Internal and external walls of basements, lift pits and cellar walls
- Potable water tanks
- Water features, swimming pools and fish ponds
- Roof areas (that will be covered with other surface toppings)
- Podiums, terraces, balconies and deck areas
- Internal wet areas
- Planter boxes, garden beds and retaining walls

### Substrate Preparation

- All surfaces must be structurally sound and free of dirt, dust, grease, paint, oil, form release, curing agents and other contaminants.
- All protrusions are to be removed and all voids, cracks, joints etc. filled prior to membrane application.



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## Application

- **Aquaproof 121** requires a suitable bond breaker at all substrate junctions for positive waterproofing applications. **PASCO Aquaband** Detailing Tape is recommended to be used at all wall/floor and wall/wall junctions, as an elastic reinforcement.
- **Aquaproof 121** Mix 2/3 water into a mixing pail. Ensure water is clean and free of chemical additives. Slowly add the powder to the water and mix using an electric stirrer until lump free. Add the final 1/3 of the required water and continue to stir. Allow product to settle for a few minutes before lightly re-stirring.
- Calculate water to powder ratio based on 180-220ml of water per kg of powder membrane.
- Product can be applied by roller, brush, trowel or spray unit that can handle high build texture.

## Curing

Drying times are:

- Recoat: 1-3 hours
- Dry film: 5-7 hours
- Exposure to water pressure: 7 days curing
- Immersion: 21 days curing

\* These times will vary depending on surface temperature, ambient conditions and surface porosity.

## Coverage

### General waterproofing (positive side):

- Minimum 1.5mm dry film thickness is required, total minimum coverage is 1.5 litres per m<sup>2</sup>, minimum 2 coats.

### Immersed and negative applications:

- Require a minimum of 1.8mm dry film thickness, total minimum coverage 2 litres per m<sup>2</sup>, minimum 2 coats.

### Preventing ingress of water under pressure (negative side):

- A minimum of 1.8mm dry film thickness is required, 2 litres per m<sup>2</sup>, minimum 2 coats.

## Precautions

- Pot life for mixed membrane is 60 minutes at 23°C.
- Polymer modified cement based tile adhesives are recommended for direct adhesion to the membrane.
- Acrylic or SBR bonding agents are recommended for applications of

## Health and Safety

Keep out of reach of children. Wear suitable protective clothing, gloves and eye/face protection. Uncured sealant may cause skin, eye and respiratory system irritation. Use only in well ventilated areas.

In case of contact with eyes, rinse immediately with plenty of water and contact a Doctor or Poisons Information Centre (**Ph 13 11 26**). In case of skin contact, wash affected area with hand cleaner followed by soap and water.

Material Safety Data Sheets must be read and understood prior to using **Aquaproof 121**.

## General Technical Data

WET FROM	
Specific gravity of mixed product:	1.5kg/litre (wet density)DIN 52455
Appearance:	Grey
CURED MEMBRANE	
Tensile Strength:	>1.5MPa
28 days immersion:	>0.9MPa
After freeze thaw cycle:	>0.74MPa
After exposure to 700 C:	>0.9MPa
After caustic potash immersion: (3% solution, 400 C)	>1.09MPa
Adhesion to concrete:	>1.1MPa
Water vapour diffusion:	1.5 (SD value)
Water pressure:	1.5 bar negative pressure 6 bar positive pressure

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