



# QUICSEAL 104 ECO

Flexible Cementitious Waterproofing Membrane

## Description

QUICSEAL 104 ECO is an environmentally friendly, two component, flexible cementitious waterproofing membrane consisting of a synthetic resin mixed with a blend of selected cement, approved recycled material and chemical additives.

When mixed, QUICSEAL 104 ECO becomes a smooth slurry and is easily applied by brush, roller or suitable spraying equipment.

QUICSEAL 104 ECO can be applied onto damp substrates. The cured membrane is flexible, durable and has excellent adhesion to most building substrates. Its unique chemical structure provides a breathable membrane that is permeable to water vapour and yet impermeable to water. QUICSEAL 104 ECO is capable of bridging hairline cracks.

## Typical Uses

Waterproofing of Basement walls and lift pits

- Waterproofing of water tanks, waterproofing of reservoirs, culverts, storm drains, canal, water retaining and water excluding structures.
- Waterproofing of kitchens and toilets
- Waterproofing of balconies, planter boxes, rc roof etc.
- Protection of concrete structures in marine environment
- Waterproofing of swimming pools and water features
- Waterproofing to precast gable end walls
- Waterproofing to external wall prior to installation of claddings.

## Advantages

- Fast setting time
- Pre-packed – Easy to mix and apply
- Excellent waterproofing qualities
- Excellent adhesion to concrete, masonry, ceramics, cement board, steel, galvanized metal, copper, PVC, etc.
- Flexible - able to bridge hairline cracks
- Resistance to frost and thawing salts
- Does not contain chloride or other corrosive salts which cause efflorescence
- Non-toxic
- Can be applied onto damp substrates

## Surface Preparation

The substrates must be clean and sound, free of laitance, dust or loose particles, oil, grease, mould release agents, curing compound or other foreign matter that may affect adhesion.

Concrete shall be trowelled to a relatively even finish. Honeycomb, spalled or deeply disintegrated concrete shall be repaired with QUICSEAL Repair System.

It is recommended that a cement & sand fillet be formed at all corners to receive the waterproofing membrane. Areas at brickwalls to receive waterproofing shall be evenly finished or skin plastered.

Prior to the application of the waterproofing membrane, dampen the substrate with water while ensuring that no free water is present on the surface.

## Mixing Instructions

Pour Part A (liquid) into a clean container. Slowly add Part B (powder) into the container and mix with a slow speed mechanical mixer until homogenous and lump free. Allow the mix to stand for 5 minutes and re-stir manually before use. Use the material within the recommended pot life.

## Application

For horizontal and vertical surfaces, a roller, brush may be used to apply the slurry. Care must be taken to ensure that air is not entrapped in the membrane.

Apply the first coat of QUICSEAL 104 ECO and allow it to dry. At the same time, ensure that all joints and corners are properly coated, preferable with a brush. Allow membrane to dry for approximately 2 hours before application of the second coat.

Once cured, protect QUICSEAL 104 ECO membrane with protective screed as soon as possible. Care should be taken to protect the membrane from damage during the curing process or subsequent construction work prior to laying of the protection screed.

### Packing & Coverage

Pack size : 36 kg/set  
Coverage : 0.8 kg/m<sup>2</sup>/coat  
(Approx. 1.6 – 1.7 kg/m<sup>2</sup> is required for 2 coat application, depending on site conditions)  
Wet film thickness : 0.70 ± 0.1 mm per coat

### Technical Data

Product Type	Cementitious Modified Co-Polymer
Mix components	Part A : Whitish liquid / Part B : Greyish powder
Mix Ratio (liquid : powder)	1: 1.4
Mixed Density	1.44 g/cm <sup>3</sup>
Mixed Color	Grey
Pot Life at 35 deg°C	Approximately 45 minutes
Tack Free Time	Approximately 2 – 3 hours depending on temperature and porosity of substrates
UV Resistance	Good
Tensile Strength (ASTM D412:1992)	> 1.2 N/mm <sup>2</sup>
Elongation at Break (ASTM D412:1992)	> 200%
Adhesion to Substrate (ASTM D4541 : 1985)	> 1 MPa
Flexibility over 25mm mandrel	Good

### Storage

The shelf life of QUICSEAL 104 ECO is 12 months when stored unopened in a cool and dry place.

### Health & Safety

Gloves and goggles should be worn. Any splashes to the skin or eyes should be washed off with clean water. In the event of prolonged irritation, seek medical advice. Powder products should be handled to minimize dust formation. Use a light mask if excessive dusting is unavoidable.

### Important Notes

The information set forth herein is furnished in good faith and is based on technical data that QUICSEAL considers to be reliable. This information is intended for use by persons having technical skill and at their own discretion and risk. Information contained in this product sheet conforms to the standard detail recommendations and specifications for the installation of QUICSEAL products as of the date of publication of this document. QUICSEAL makes no other warranties and assumes no liability, expressed or implied, as to the architecture, engineering or workmanship of any project. To ensure that you are using the latest, most complete information, contact QUICSEAL.

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