

# Hydrathane

## WATER-BASED POLYURETHANE WATERPROOFING MEMBRANE

### PACKAGING



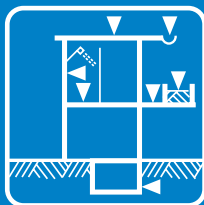
### MIXING



### APPLICATION



### USES



### SUBSTRATES

CONCRETE  
BUILDING BOARDS  
BRICK BLOCK  
RENDER  
CEMENT SHEET  
STRUCTURAL TIMBER  
FLOORING

### DESCRIPTION

A single pack water-based polyurethane waterproofing membrane which is flexible, tough and fast curing (can be tiled in 6-12 hours @ 23°C @ 50% relative humidity).

### USES

A waterproofing membrane for INTERNAL WET AREAS eg bathrooms, showers, laundries, tiled or screeded ROOF TOPS, BALCONIES and BELOW GROUND applications eg. Retaining walls and planter boxes (subject to protection from damage and adequately drained) on concrete, render, screeds and approved wet area floor and wall building boards. i.e compressed cement sheet, fibre cement sheeting and wet area plasterboard.

### FEATURES

- A tough elastic membrane
- UV stable
- Suitable for maintenance foot traffic
- Compatible with Construction Chemicals ceramic tile adhesives
- Does not stain tile grout or marble
- Trafficable after 6-12 hours

### COVERAGE (Approximate)

**Floor** – Apply two wet coats 0.8mm (800µm) to the floor and 100mm up the surrounding walls to obtain a 1mm (1000µm) dry film thickness. A 15lt pail covers 10m<sup>2</sup>.

**Walls** – Apply two wet coats (0.5mm (500µm) to obtain a 0.6mm (600µm) dry film thickness. A 15lt pail covers 15m<sup>2</sup>.

### PERFORMANCE DATA

Tensile Strength AS4858	2.2 Mpa
Elongation AS4858	468% Class 3

### SPECIFICATION

The waterproofing membrane shall be a one-part water-based polyurethane compound with a tensile strength of 2.2 Mpa and 468% elongation such as HYDRATHANE, manufactured by Construction Chemicals and shall be applied in accordance with AS3740, local building codes, the manufacturer's instruction and good trade practice.

### SURFACE PREPARATION

The surface to be waterproofed must be structurally sound and free from dirt, dust, grease, paint, wax, laitance and all other contaminants. Protrusions that can puncture the membrane must be ground flat. Holes and voids shall be filled with PATCH & ANCHOR. Building boards must be installed in accordance with the manufacturer's instructions and local building codes. Cracks and junctions in building surfaces shall have a bond breaker or silicone applied evenly over the junction or crack prior to the membrane application (to accommodate extremes of movement). New concrete should be wood float finished and allowed to cure for 7 days. Steel float finished concrete, renders and screeds, must be mechanically abraded to remove laitance. Old concrete must be cleaned with a strong detergent/degreaser to remove contaminants then thoroughly washed and allowed to dry. All porous substrates must be primed with PRIMER AND GROUT ADDITIVE to prevent excessive moisture draw from the membrane. Metal surfaces, nail and screwheads, must be free of rust and primed with a rust inhibiting primer. All waterproofed floors, roof and balconies shall be sloped to a drain outlet in conformity with AS3740 Revised 2004 Edition and local building codes. As a guide a 1:60 fall is 15mm in 1 metre for wet areas and 1:100 fall is 10mm in 1 metre for roofs and balconies.

## JOINTS/CRACKS IN BUILDING SURFACES

At junctions in building surfaces and over cracks place a bond breaker, tape or neutral cure silicon bead (as per ASNZ 4858/2004), and reinforce the first wet coat with 140mm REOMAT (to accommodate extremes in movement). Place the bond breaker/silicon bead and reinforcing mat centrally over the joint or crack.

## APPLICATION

Apply the membrane in accordance with AS3740 and local building codes and good trade practice. Prime concrete and building boards with PRIMER AND GROUT ADDITIVE. Apply two coats of HYDRATHANE with a brush or roller. Apply thickly allowing it to flow rather than brush to achieved required thickness. Check the wet film thickness with a wet film thickness gauge at 0.5 metre intervals and also at 0.5 metres along the bond breaker with a "Wet Film Thickness Gauge". Apply the second coat at 90° to the first (Recoat time is approximately 2 hours at 23°C @ 50% relative humidity). Floor and 100mm up surrounding walls apply two wet coats 0.8mm thick and on walls two wet coats 0.6mm thick. Apply the membrane down the front edge of balconies to the drip mould and down into drains and outlets and remove excess material. Apply a third coat if necessary to obtain the required thickness in critical areas i.e. over the bond breaking tape, over cracks and building junctions.

## CURING

3 days at 23°C @ 50% RH.

Colder temperatures will increase cure time.

## POND TEST

A pond test is recommended in wet areas after the membrane has cured to ensure the integrity of the membrane.

## TILING

Apply tiling directly to the cured membrane with MONOFLEX, GRIPFLEX or KEMFLEX 2:1.

## PACKAGING

20kg (15lt).

## SHELF LIFE

12 months in an unopened can, stored in a dry place at 22°C.

## PRECAUTIONS

HYDRATHANE is UV resistant and will withstand maintenance foot traffic. It is advisable to screed, tile or protect with a paving paint/DECKGRIP when traffic is more regular.



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