Aquaflex™

TECHNICAL DATA SHEET

ULTRAFLEX HYBRID

HYBRID WATERBASED POLYURETHANE MEMBRANE

Aquaflex Ultraflex Hybrid is a highly versatile polyurethane/acrylic resin modified waterproofing membrane. The unique formulation is suitable for wet areas and exposed external applications and as a Class III membrane, it offers very good flexibility and crack bridging capability.

Compliant to AS 4858 for internal wet areas, Ultraflex can be used as an undertile membrane supporting overlaid tile and decorative finishes. And compliant to AS 4652.2 as an exposed, light trafficable membrane system to protect exterior substrates against UV degradation and harsh climatic conditions.

FEATURES & BENEFITS

- Class III highly flexible and elastomeric membrane tested as per CSIRO AS 4850 and AS 4652.2
- Non hazardous formulation, solvent free.
- Low vapour transmission properties and low water absorption.
- Excellent adhesion properties.
- Outstanding weather and UV resistances properties
- Light foot trafficable

APPLICATION

- Ultraflex is suitable for commercial. industrial and residential applications

USES

- Wet area membrane for showers, bathrooms, kitchen, laundry, tiolet areas that are to be tiled over.
- External areas such as balconies, windows, roofs, parapets, decks, podiums.

SUBSTRATES

- Concrete, render and masonry
- Fibre cement sheeting and plasterboard
- Wet area timber sheeting and external grade plywood
- Aerated concrete panels and blocks

APPLICATION & COVERAGE

Ultraflex is to be installed in line with current edition, relevant volume and sections of the NCC (National Construction Code of Australia) pertaining to internal, external and general waterproofing applications within the scope of use for the product.

Undertile applications: 2 coats
Exposed/trafficable applications: 3 coats

	Wet Film	Dry Film	Total Film
1st coat	750 microns	500 microns	500 microns
2nd coat	750 microns	500 microns	1.0mm
3rd coat	500 microns	300 micons	1.3mm

** Each 15L pail will cover 8-10sqm at 2 coats

TECHNICAL DATA

Elongation to break	Strain %	Class
Control:	451%	III
Water immersion:	677% (56 days)	Pass
Bleach immersion:	927% (56 days)	Pass
Detergent immersion:	361% (56 days)	Pass
Heat aging:	413% (7 days)	Pass

Water Vapour transmission (WVT): - 0.250g/m2/24hours (mean)
Permeance: 0.0077 ug/N.s.
Moving joint test: 50 cycles PASS
Water absorption: AS 3558 (3.16%)

Series 904 Vertical Sealant Tester:
Number of cycles completed: 50
Surface Crazing: Nil
Surface Tears: Nil
Membrane Rupture: Nil

SURFACE PREPARATION

- All surfaces are to be clean, sound, smooth, dry and free from loose material, dirt, dust, oil, grease, wax residues, laitance, curing compounds, release agents, existing coatings, moss, algae, sharp protruding objects and general surface contaminants that may compromise the adhesion of the overlaid membrane.
- Structurally unsound layers and surface contaminates to be mechanically removed by grinding, abrasive blasting or equivilant methods.
- Masonry surfaces to be pointed flush, and all surface defects including voids, holes, pitted sections, heavy undulations and non-structural cracks to be filled and levelled.
- Building surfaces must be fit for purpose, constructed and installed to manufacturers recommendations and relevant building standards in force at time of application.
- Concrete to be allowed to cure for at least 28 days, and cement render/sand cement screeds allowed tro cure for 7 days.

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PRIMING

Ultraflex MUST be applied onto a well primed surface:

- Porous - absorbent surfaces: Aquaflex WB Primer or similar
- Non porous - non absorbant surfaces: Grispet OP Primer
- New - damp surfaces with residual moisture: Aquaflex Floseal
- Surfaces subject to rising damp: Aquaflex Floseal Epoxy Primer

Apply primer to surfaces to the extent of the waterproofing application, in line with relevant standards and project specification. Refer to individual primer TDS for specific application details.

DETAILING & BOND BREAKER SYSTEMS

All critical areas of the waterproofing application including joints, junctions, movement zones, penetrations, drainage points and cracks are to be correctly sealed and detailed prior to membrane application.

- Bond breaker & joint transitions: Elastoproof B50 / corners
- Pipes & penetrations: Butyl Tape / squares
- Leak control flanges / general fixtures: Butyl Tape / squares
- Static cracks 1mm upt 6mm: Soudal SMX35 Seal & stick

TILING

- When tiling directly over Ultraflex in internal and external floor areas, polymer modified cement based adhesives must be applied.
- If applying a screed, render or concrete topping over Ultraflex, a latex additive is highly recommended as a proprietry bonding agent and water resistant additive into the mix.

OTHER FINISHES

- Ultraflex may be painted over with water based paints and texture finishes. Contact your paint supplier to confirm.

DRYING TIMES

Re-coat:	2-4 hours
Tiling / Toppings:	24-48 hours
Full Cure / Flood Test:	72 hours

** Drying times based on normal ambient temperatures of 23°C and 50% RH.

MEMBRANE MAINTENANCE

- Stir the contents well prior to the application with a drill and mixer. Do not overmix.
- Apply by trowel, brush or roller to obtain a consistent and even coating.
- 2 coats minimum within 48 hours
- Can be stored for up to 18 months in sealed containers.
- Do not freeze / store.

CLEAN UP

- In water while membranes is in a wet state
- Dried product will need to be removed mechanically

CONTAINER SIZE

- 4L and 15L Pail

WARRANTY AS A SYSTEM

Wet area : 10 years manufacturers product warranty

PRECAUTIONS

- Do not apply to areas when rain is imminent
- Do not apply when surface temperature is below 5°C or above 30°C
- Not to be used in areas subject to negative hydrostatic pressure
- All finish coatings over this membrane must be solvent free

HEALTH & SAFETY

For information and advice on safe handling, first aid, storage and disposal of chemical products, users must refer to the saftey data sheet.

Aquaflex™
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Product Disclaimer
This Product Data Sheet (PDS) summarises our best knowledge of the product, including how to use and apply the product based on the information at the time. You should read the PDS carefully and consider the information in the context of how the product will be used, including in conjunction with any other product and the type of surfaces to, and the manner in which, the product will be applied. Our responsibility for products sold is subject to our standard terms and conditions of sale. RMR & Co Pty Ltd does not accept any liability either directly or indirectly for any losses suffered in connection with the use or application of the product whether or not in accordance with any advice, specification, recommendation or information given by it.