

AquaflexTM POLYURETHANE MEMBRANE

Technical Data Sheet



DESCRIPTION

Aquaflex Polyurethane PU Membrane is a tough, durable, elastomeric, single pack, liquid applied, moisture curing cross linking, polyurethane waterproofing membrane. **Aquaflex PU** forms a tough, flexible, seamless waterproofing membrane designed for both vertical and horizontal surfaces that bonds well to most suitable primed building substrates. **Aquaflex PU** is formulated as an anti-sag membrane, that although easy to apply by roller or brush, it can be applied on a vertical surface without slumping to achieve the required film thickness.

USE AREAS

Aquaflex PU has been designed to waterproof most applications within the building and construction industry including:

- Tiled and covered areas
- Shower recess and wet areas (floors and upturns)
- Decks, balconies, terraces and podiums
- Retaining walls
- Planter boxes and landscaped areas
- Structural slabs
- Tanks, pits and water retaining structures
- Roofs covered with pebbles or other toppings.

SUITABLE SURFACES

Surface should be sound, stable, dry, free of dirt, dust and primed:

- Concrete
- Cement and cement block work
- FC Sheeting, Plaster Board
- Hebel, Bricks
- Render
- Masonry

GENERAL

COLOUR : Grey

WEATHERABILITY : UV resistant however a UV Topcoat is highly recommended for better durability.

TOXICITY : Not for use in contact with edible substances or potable water.

ADHESION : Bonds to suitably prepared and primed surfaces such as aged asphalt, aged EPDM, aged cap sheet, coposite, concrete, fiberglass, metal, modified bitumen, and most existing coatings on flat or sloped roofs.

ELONGATION : 600% # 10%

TEAR RESISTANCE : ASTM D 1624 Die C lbs/inch 32 pli (5.7 kg(f)/cm)

HARDNESS : ASTM D676 50 Shore A

COVERAGE : WFT - 1.5 - 2 Litres per SQM (2 coats) ; DFT - 1.6 Litres per SQM (2 coats)

SHELF LIFE : 12 months from date of manufacture stored at 22 degrees C in a cool dry place.

SURFACE PREPARATION

All surfaces shall be sound, fastened as per manufacturers directions, clean, dry and free of corrosion, oils and other contamination. Waterblast, wire brush / sandblast roof surfaces as necessary to remove all contaminants and weathered substrate. Prime/seal asphalt, EPDM, concrete and single ply roofing with a suitable Epoxy or Polyurethane primer (such as Floseal Epoxy Primer or Silcor PU Primer) as per data sheet. Varying substrates may require alternate prior treatments. Check adhesion by applying a test area.

APPLICATION

MIXING : Mix before application to assure uniform colour and consistency. Product should not be thinned. A minimum of 2 coats are required. Apply by brush, roller or spray. Allow the first coat to dry for 6 to 12 hours prior to re-application. Use a 1/2" nap roller cover - dip roller directly into pail and apply, or pour product onto flat roof surface and roll out evenly, or spread with a 1/8" notched squeegee then immediately back roll for a smooth, even finish. Alternatively, apply with airless sprayer sprayed evenly to achieve consistent coverage. Textured surfaces may require additional coat/s to achieve a final dry film build. With tar and gravel built up roofs, embedded gravel should generally be encapsulated and not protrude more than 1/4" above flood coat.

PRECAUTIONS

Some individuals may experience a skin reaction to **Aquaflex Floseal Epoxy Primer**. Those individuals should wear personal protection equipment. Refer to the Material Safety Data Sheet for more information.

Aquaflex Floseal Epoxy Primer cure rates will be dramatically reduced if relative humidity is above 85%.

Do not apply **Aquaflex Floseal Epoxy Primer** to excessively wet surfaces.

Aquaflex Floseal Epoxy Primer should never be diluted.

Apply **Aquaflex Floseal Epoxy Primer** between 10-35 degrees C.

In enclosed areas, such as water tanks or reservoirs, ventilation should be provided during curing cycle to enable adequate evaporation of the coating.

Do not apply **Aquaflex Floseal Epoxy Primer** over any substrates that have been previously treated or coated with curing compounds, PVA concrete bonding agents or acrylic coatings. These areas must be mechanically cleaned by grinding or shot blasting to produce a contamination free surface.

COOL SUBSTRATE & COLD CLIMATES

Aquaflex Floseal Epoxy Primer curing rates will be dramatically reduced if substrate surface or ambient temperature is below +10 degrees C.

If possible warm the substrate surface area where **Aquaflex Floseal Epoxy Primer** is to be applied by air blower or use a blower after application. Always provide adequate ventilation during the curing cycle.

DISCLAIMER

The information, and in particular, the recommendations relating to the application and end-use of Aquaflex products, current knowledge and experience of the products when properly stored, handled and applied under normal conditions.

It is your responsibility to ensure that our products meet your requirements, are used, and handled correctly in accordance with any applicable Australian Standard, our instructions and recommendations and only used for the applications for which they are intended.

In practice, the differences in materials, substrates and actual site conditions are such that no manufacturer warranty.

In respect of merchantability or of fitness for a particular purpose, nor any liability arising out of any legal relationship whatsoever, can be inferred either from this information, or from any written recommendations, or from any other advice offered.

We also reserve the right to update information without prior notice to you to reflect our ongoing research and development.

The supply of our products and services is also subject to certain terms, warranties, and exclusions, which may have been disclosed to you in prior dealings or are otherwise available to you on request. You should make yourself familiar with these.

Notes:

The reported VOC value is based on theoretical calculation of the known TVOC values of the finished products raw material components.

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