



Aquaproof 110

Polyurethane Membrane for Non-Exposed Applications

Features

- ▶ **750% Elongation**
- ▶ **High Tensile Strength**
- ▶ **Superior Adhesion**
- ▶ **Easy to Apply**
- ▶ **Puncture Resistant**
- ▶ **Seamless**
- ▶ **Low Solvent**
- ▶ **Complies to AS4858**
- ▶ **Complies to AS4654.1**

Product Description

Aquaproof 110 is a moisture curing elastomeric polyurethane waterproofing membrane. Once cured it forms a tough, seamless, rubber membrane, with high tensile strength and tenacious adhesion to a variety of substrates.

Features & Benefits

- Superior adhesion to most substrates
- High puncture and abrasion resistance
- AS4654.1 CSIRO tested
- AS4858 CSIRO tested
- Easy to apply
- Crack bridging 1mm
- Fast curing
- Seamless
- >750% Elongation
- 90% Solids content

Uses

- Podiums
- Balconies
- Under screeds (refer to precautions)
- Under pavers on Buzon pedestals (maximum joint width 4.5mm)
- Inverted roofs

Preparation

- All surfaces must be clean, dry, sound and free from dust, oil, rust, plaster dust, cement droppings, protrusions, old sealant or any other contamination. Surfaces must be free from form release and curing agents.
- Metal surfaces shall be clean and free of any rust, dirt and grease. Rusted surfaces must be wire brushed or sandblasted and treated with an appropriate rust converter.
- All protrusions are to be removed and all voids, cracks, joints etc. filled prior to membrane application (refer to application).
- Ensure substrate has adequate falls i.e 1:100 for balconies and decks.

Priming

Concrete:

- **Aquaprime PU Primer** or **Aquaprime WBE**.
- Coverage 6-8m² per litre.

Metal:

- **Aquaprime PU Metal Primer**.
- Coverage 8-10m² per litre.

Plywood:

- **Aquaprime PU Primer** or **Aquaprime WBE**.
- Coverage 5-6m² per litre.



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Application

- **Aquaproof 110** should be mixed to ensure no settlement is in the bottom of the pail. Mix for approximately 3-5 minutes using a low speed drill.
- Cracks greater than 2mm are to be routed out and filled with **Pascoflex PU25** polyurethane sealant.
- Movement/expansion joints are to be filled with **Pascoflex PU25** and a closed cell backing rod.
- Although **Aquaproof 110** does not require reinforcement, it is recommended that any change in floor substrates i.e. metal flashing is to be reinforced using either **Pasco Type S Reinforcing Fabric** or **Pasco Amazing Tape**.
- Apply a 10-12mm bead of **Pascoflex PU25** to all internal horizontal and vertical corners, tool to a smooth concave shape and allow to cure.
- Using a brush apply a detail coat (approx. 100mm) of **Aquaproof 110** to all lap joints, internal corners, hobs, floor wastes, floor penetrations etc.
- Using a brush, roller or a notched squeegee, apply one coat of **Aquaproof 110** to the entire area at the required coverage rate of 0.8m² per litre.
- Allow **Aquaproof 110** a minimum of 24-48 hours curing.
- If recoating is required, apply within 48 hours. If more than 48 hours has elapsed or if the membrane has been exposed to rain, clean existing membrane with **Pasco Xylene** industrial thinner to ensure adequate interlaminar adhesion.

Curing

- Full cure is after 48 hours at 25°C and 50% RH.

Coverage

- Apply **Aquaproof 110** @ 0.8m² per litre or 1.25L per m².
- Minimum dry film thickness of 1mm.

Precautions

- Do not apply if temperature is above 35°C or less than 5°C.
- Do not apply if rain is imminent.
- Do not use in a chlorinated environment.
- Ensure sheet flooring is appropriately fixed as per manufacturers' instructions.
- **Aquaproof 110** is not UV stable and should therefore not be left exposed.
- When screeding over **Aquaproof 110**, screeds must have a minimum thickness of 40mm and self-supporting by reinforcing with wire mesh. A slip sheet comprising two layers of 200micron builders' plastic, crossed laid is to be applied over the **Aquaproof 110** prior to the installation of the screed. If a specialist screed is to be used, please consult with manufacturer if the screed can be used in a self-supporting application.
- Do not direct stick tiles onto **Aquaproof 110** as this could lead to the debonding of tiles.

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 110**.



241 Ingles Street
Port Melbourne, VIC 3207
Ph: (03) 9429 9111

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Packaging

- **Aquaprime PU Primer** is available in 1lt, 5lt & 20lt drums.
- **Aquaprime WBE** is available in 8lt & 20lt kits.
- **Aquaproof 110** is available in 15lt pails.

Colour

Aquaproof 110 is available in grey.

Shelf Life

12 months minimum, when stored in cool, dry, original containers in conditions below 25°C.

Typical Physical Properties

Physical Property	Test Method	Value
Viscosity (Brookfield)	ASTM D2196-86 @ 25°C	3800-4000cP
Specific Weight	ASTM D1475 DIN53217 ISO 2811 @ 20°C	1.1 gr/m ³
Flash Point	ASTM D93 Closed Cup	>42°C
Tack Free Time 25°C @ 55%RH		5 - 6 hrs
Recoat Time		6 - 24 hrs
Tensile Strength @ break 23°C	ASTM D412 DIN 52455	3kg/cm ³
Service Temperature		-40 to 80°C
Max temp. short time shock		200°C
Thermal Resistance (100 days @ 80°C)	EOTA TR011	Passed
Hardness (Shore A)	ASTM D2240 DIN 53505	30
Elongation @ 23°C	ASTM D412 DIN 52455	>750%
Water Vapour Transmission	ASTM E96	7.81 g/m ² /24
Adhesion to concrete	ASTM D4541	>20 kg/cm ²
Hydrolysis (8% KOH, 14 days @ RT)		No significant elastomeric property change
Hydrolysis (H ₂ O, 14 days @ RT-1000°C cycle)		No significant elastomeric property change
Hydrolysis resistance (Potassium Hydroxide 8%), 10 days @ 50°C		unaffected
Hydrolysis resistance (Sodium Hypochlorite 5%), 10 days		unaffected
Thermal Resistance (100 days @ 80°C)	EOTA TR011	Passed
H2O absorption (10 days)		<1/3%

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