



Aquaproof 110/110UV

UV Stable, Trafficable Polyurethane Membrane Coating System

Features

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

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Product Description

Aquaproof 110/110UV is a complete, moisture curing elastomeric polyurethane waterproofing membrane. Once cured it forms a tough, highly flexible rubber membrane, exhibiting tenacious adhesion to a variety of substrates. **Aquaproof 110/110UV** is a high strength, puncture resistant, monolithic, seamless waterproof membrane with the added advantage of being trafficable and UV stable.

Aquaproof 110 base coat is based on a pure hydrophobic aromatic resin which is moisture curing. Once cured it forms an elastic film with excellent adhesion and waterproofing properties. Due to its high elongation and low modulus properties it is extremely successful in crack bridging applications.

Aquaproof 110 UV top coat is based on a pure hydrophobic aliphatic resin which is moisture curing. Once cured it produces a strong elastic film with excellent adhesion properties and resistance to UV, chemical exposure and pedestrian traffic.

Features & Benefits (Aquaproof 110)

- 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

Features & Benefits (Aquaproof 110UV)

- U.V Stable
- Superior adhesion
- Trafficable
- Easy to apply
- Flexible 350% Elongation
- Chemical resistant
- Seamless
- Crack bridging
- Fast curing
- Vertical / Horizontal use
- 80% Solids content

Uses

- Podiums
- Balconies
- Roof tops
- Walkways
- Plant Rooms

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. Metal surfaces must be wiped clean with **Pasco Xylol** prior to application of **Aquaprime PU Metal Primer**.
- 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.



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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 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 0.8m-0.9m² per litre.
- Allow **Aquaproof 110** a minimum of no more than 24 hours curing.
- Apply **Aquaproof 110UV** at the required coverage rates. If a non slip surface is required a light broadcast of sand (16/30 grade) is required in the top-coat prior to curing and backrolled.
- If **Aquaproof 110UV** is only to be used as a top-coat with no non-slip aggregate, then a coverage rate of 2.5m²/L is required to achieve a DFT of 0.276mm.
- If recoating is required, apply within 24 hours. If more than 24 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

Do not apply when rain exposure is likely within 24 hours of application. Full cure is achieved after 3 days at 25°C and 50% RH. Curing time is dependant on temperature and humidity.

Coverage

- Apply **Aquaprime PU Primer** at approximately 6m² per litre.
- Apply **Aquaproof 110** at 0.8m-0.9m² per litre. Dry film thickness of 1mm minimum.
- Apply **Aquaproof 110UV** at 3m² per litre. Dry film thickness of .27mm.

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.
- Not to be applied on unsound substrates.
- Not to be applied on damp substrates.
- Ensure sheet flooring is appropriately fixed as per manufacturers' instructions.
- **Aquaproof 110** is not UV stable and should therefore not be left exposed.

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 110/110UV**.



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Packaging

- **Aquaprime PU Primer** is available in 1lt, 5lt & 20lt pails.
- **Aquaproof 110** is available in 15lt pails.
- **Aquaproof 110UV** is available in 20lt pails.

Colour

Aquaproof 110UV is available in grey. Colours are available on request. Please contact Pasco for further information and availability.

Shelf Life

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

Typical Physical Properties

Physical Property	Test Method	Results	
		110	110UV
Viscosity (Brookfield)	ASTM D2196-86 @ 25°C	3800-4000cP	1000
Specific Weight	ASTM D1475 DIN53217 ISO 2811 @ 20°C	1.1 gr/m ³	1 gr/m ³
Flash Point	ASTM D93 Closed Cup	>42°C	42°C
Tack Free Time 25°C @ 55%RH		N/A	5 - 6 hrs
Recoat Time 25°C @ 55%RH		24 hrs	6 - 24 hrs
Tensile Strength @ break 23°C	ASTM D412 DIN 52455	3kg/cm ³	35 N/mm ²
Service Temperature		-40 to 80°C	-40 to 80°C
Max temp. short time shock		200°C	200°C
Thermal Resistance (100 days @ 80°C)	EOTA TR011	Passed	N/A
Hardness (Shore A)	ASTM D2240 DIN 53505	30	75
Elongation @ 23°C	ASTM D412 DIN 52455	>750%	>350%
Water Vapour Transmission	ASTM E96	7.81 g/m ² /24	N/A
Adhesion to concrete	ASTM D4541	>20 kg/cm ²	>20 kg/cm ²
Hydrolysis (8% KOH, 14 days @ RT)		No significant elastomeric property change	No significant elastomeric property change
Hydrolysis (H ₂ O), 14 days @ RT-1000°C cycle)		No significant elastomeric property change	No significant elastomeric property change
Hydrolysis resistance (Potassium Hydroxide 8%), 10 days @ 50°C		unaffected	unaffected
Hydrolysis resistance (Sodium Hypochlorite 5%), 10 days		unaffected	unaffected
Thermal Resistance (100 days @ 80°C)	EOTA TR011	Passed	Passed
H2O absorption (10 days)		<1/3%	<1/3%
Solids content		90%	80%

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