

APTC Leakproof PU910

Polyurethane waterproofing membrane

Description

APTC Leakproof PU910 is a high performance, low VOC elastomeric polyurethane waterproofing membrane. Formulated for use in external areas, it cures to form a durable, seamless and fully bonded surface that remains permanently elastic and is suitable for direct foot traffic.

APTC Leakproof PU910 is AS/NZS 4858:2004 and AS4654.1:2012 approved and complies with Green Star requirements.

Uses

APTC Leakproof PU910 is suitable for use on rooftops, balconies, terraces, podium decks and other external wet areas

Suitable substrates: Concrete, brick, masonry

Features & Benefits

Single pack, ready to use	High resistance to puncture, staining & stagnant water
Low VOC and odour	Permanently flexible—high elongation >300%
Quick tack free time	No reinforcement required
Trafficable	AS 4858: 2004 and AS4654.1:2012 approved

Specifications and Technical Properties

	METHOD/STANDARD	
DENSITY (g/cm³) Liquid	ASTM D1475-13	Liquid 1.25–1.35, Cured 1.4–1.45
VISCOSITY @30 RPM (cPs)		10000-18000
TENSILE STRENGTH (MPa)	AS 1683.11	6
ELONGATION (%)	AS 1683.11	> 300%
SHORE A HARDNESS	AS 1683.15.2	70
ANGLE TEAR STRENGTH (Kn/m)	AS 1683.12	20
PEEL ADHESION (N)	ASTM C794	>100 (concrete)
VOC CONTENT (g/L)	ASTM D2369-10	250
NON VOLATILE CONTENT (%)	ASTM D2369-10	81

Surface Preparation & Priming

All surfaces and substrates to be waterproofed must be clean, sound and dust free. The substrate must be smooth and free of any voids with all loose particles, grease, oils, silicones, curing compounds and laitance removed before the waterproofing application begins.

Substrates must be fit for purpose, constructed and installed in accordance with manufacturers installation recommendations and comply with the relevant buildings standards at the time of application.

Priming:

All surfaces to be waterproofed must be primed using before application of the membrane.

For metal substrates—**APTC Leakproof PU Primer Metal**

For other substrates—**APTC Leakproof MB2K**

Contact APTC Australia for more information on primer application.

Application

APTC Leakproof PU910 must be applied in 2 coats to achieve a minimum dry film thickness (DFT) of 1.2mm.

- Apply the product using a brush or roller
- Each coat must be applied at a thickness of 0.8 L/m²
- Allow a minimum of 12 hours before applying the second coat.
- **Maximum time between coats is 48 hours.** If this time is exceeded before the application of the second coat or it is exposed to rain/moisture between coats, the membrane must be ground back to the substrate and application reapplied.
- Undercoating will result in premature degradation of the membrane
- Regular use of a wet film gauge is recommended during the application process to ensure the correct dry film thickness is achieved.

APTC Leakproof PU910 must be installed in line with the current edition of the NCC (National Construction Code of Australia) pertaining to internal and external waterproofing applications.

Finishings:

APTC Leakproof PU910 can be subjected to light foot traffic after 24 hours

- For areas with consistent high ground temperature and where UV resistance is required, **APTC Leakproof ATC** must be applied as a top coat.
- Where the finished membrane is subject to vehicle traffic, **APTC Leakproof ATC** must be applied as a top coat.

Contact APTC Australia for more information on finishings.



Drying

Minimum recoat time	12 hours
Maximum recoat time	48 hours
Full cure	12-48 hours

Drying times are based on ambient temperatures of 23°C & 50% relative humidity. Longer drying times will be required in cold, damp or humid conditions.

Coverage

Consumption per m ²	1.6 litres
Approximate coverage per pail (2 coats)	9m ²
Minimum coats to achieve 1.2mm dry film thickness	2 coats

Clean up

Tools and equipment should be cleaned before membrane cures using Xylene or MEK.

Packaging

Colour: Grey

Size: 18kg metal pail

Storage & Shelf Life

Store in original unopened container in a cool, dry, and well-ventilated area, away from heat sources and oxidizing agents. Avoid exposure to direct sunlight or temperatures below 5°C or above 35°C. After opening, use the entire contents immediately.

Shelf life: 9 months from date of manufacture in unopened packaging.

Limitations

APTC Leakproof PU910 is not suitable for use in the following applications:

- Without the use of a primer
- Where the substrate temperature is below 5°C or above 35°C
- **APTC Leakproof PU910** cannot be subjected to vehicle traffic without the use of a top coat
- **APTC Leakproof PU910** must not be recoated if more than 48 hours have passed since application of first coat. Refer to application instructions for directions on recoating
- The suitability of the product for each intended use must be determined by the purchaser prior to the application of the membrane.

Health & Safety

APTC Australia supports best practice in material handling; gloves, mask, safety goggles and protective clothing should be worn when handling and using this product. Ensure adequate ventilation when applying and keep away from heat, sources of heat, sparks, open flame and other ignition sources.

Product may cause an allergic skin reaction or eye irritation. May be fatal if swallowed and enters airways. Keep out of reach of children.

SKIN: If product comes into contact with the skin, wash off with warm soapy water. If skin irritation or rash occurs, seek medical advice. **SWALLOWED:** If swallowed do NOT induce vomiting. Immediately call a Poison Centre, doctor, physician or first aider. **EYES:** In case of contact with eyes, wash out immediately with water. If irritation occurs, seek medical advice. Removal of contact lenses should be undertaken by a professional. **INHALATION:** Remove from contaminated area and keep comfortable for breathing. Seek medical advice.

If poisoning occurs, contact a doctor or Poisons Information Centre Ph 13 11 26 (Australia).

Safety data sheets (SDS) for this product are available on the APTC Australia website www.aptc.com.au. Read the TDS and SDS carefully before using any product.

Disclaimer

The information and recommendations provided regarding the application and use of APTC Australia products are based on APTC Australia's current knowledge and experience, assuming proper storage, handling, and application according to our guidelines. However, due to variations in materials, substrates, and site conditions, we cannot guarantee any warranties related to merchantability or fitness for a particular purpose, nor assume any liability based on this information, written recommendations, or other advice. Users must assess the suitability of the products for their specific application and purpose. APTC Australia reserves the right to modify product properties at any time. Third-party proprietary rights must be respected. All orders are subject to our current terms of sale and delivery. For the most up-to-date product information, users should refer to the latest version of the local product data sheet, which can be provided upon request.