

# APTC Leakproof PU720 BG

Polyurethane waterproofing membrane for below ground applications

## Description

**APTC Leakproof PU720 BG** is a high performance, low VOC elastomeric polyurethane waterproofing membrane formulated for use in below ground waterproofing applications. Single-pack and ready to use, it cures to form a seamless, durable, and permanently flexible coating with high puncture resistance and anti root properties.

**APTC Leakproof PU720 BG** is AS/NZS 4858:2004 and AS4654.1:2012 approved

## Uses

**APTC Leakproof PU720 BG** is suitable for use in below ground applications such as basement walls (positive side) retaining walls, tunnels (positive side), garden beds and green roofs

**Suitable substrates:** Concrete, brick, masonry, metal

## Features & Benefits

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

## Specifications and Technical Properties

	METHOD/STANDARD	
DENSITY (g/cm <sup>3</sup> ) Liquid	ASTM D1475-13	1.35–1.40
DENSITY (g/cm <sup>3</sup> ) Cured	AS 1683.4	1.46–1.50
VISCOSITY @30 RPM (cPs)		8000-14000
TENSILE STRENGTH (MPa)	AS 1683.11	>2
ELONGATION (%)	AS 1683.11	> 300%
SHORE A HARDNESS	AS 1683.15.2	50
ANGLE TEAR STRENGTH (Kn/m)	AS 1683.12	12
PEEL ADHESION (N)	ASTM C794	>95 (concrete)
VOC CONTENT (g/L)	ASTM D2369-10	180
NON VOLATILE CONTENT (%)	ASTM D2369-10	88
SERVICE TEMPERATURE (°C)		-20 to +80

## 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 concrete substrates: **APTC Leakproof PU Primer**
- For high porosity or wet concrete (humidity >5%) **APTC Leakproof MB2K Primer**

Contact APTC Australia for more information on primer application. Compatibility of the primer must be checked prior to the application.

## Application

**APTC Leakproof PU720 BG** is supplied in a ready to use pail and 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 minimum wet film thickness (WFT) of .68mm (680 microns)
- Allow a minimum of 12 hours before applying the second coat.
- **Maximum time between coats is 24 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.
- Regular use of a wet film gauge is recommended during the application process to ensure the correct dry film thickness is achieved.

**APTC Leakproof PU720 BG must be installed in line with the current edition of the NCC (National Construction Code of Australia) pertaining to internal and external waterproofing applications.**

## Drying

Minimum recoat time	12 hours
Maximum recoat time	24 hours
Full cure	24-48 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 <sup>2</sup>	1.36lt (2 coats)
Approximate coverage per 20kg pail (2 coats)	14m <sup>2</sup>
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: Black

Size: 20kg 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 PU720 BG** 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
- Where the substrate moisture is greater than 5%
- Where the relative humidity is below 20% or above 90%
- In areas without adequate drainage and where the risk of pondage is high
- **APTC Leakproof PU720 BG** must not be recoated if more than 24 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 skin or eye irritation. Keep out of reach of children.**

**SKIN:** Effects may be delayed. If product comes into contact with skin or hair, remove contaminated clothing immediately and flush with running water for 15 minutes or until advise to stop by Poisons Information Centre or doctor. For skin burns, cover with clean dry dressing until medical help is available. If blistering occurs, DO NOT break blisters. If allergic reaction occurs—swelling, blistering or redness—seek medical advice. **SWALLOWED:** If swallowed, do NOT induce vomiting. Give a glass of water. Immediately contact Poisons Information Centre or doctor. If vomiting occurs give a further glass of water. Seek medical advice. **EYES:** In case of contact with eyes, hold eyelids apart and flush continuously with water. Seek medical advice. **INHALATION:** Remove from contaminated area. Keep patient warm and comfortable and allow to rest until fully recovered. Seek medical advice if effects persist.



## Health & Safety cont'd:

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

**Fire** If involved in a fire use water fog (or if unavailable fine water spray), alcohol resistant foam, standard foam, dry agent (carbon dioxide, dry chemical powder)

**Disposal** Dispose of empty containers in accordance with local, regional, national and international guidelines

Safety data sheets (SDS) for this product are available on the APTC Australia website [www.apzcaust.com.au](http://www.apzcaust.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.