

APTC Leakproof MB2K

Two part water based epoxy primer and moisture barrier

Description

APTC Leakproof MB2K is a two part, water based epoxy primer and barrier system designed to prevent moisture, vapour and rising damp from penetrating through surfaces. Multi-use, it can serve as a primer and vapour barrier for waterproofing systems, a protective coating for walls and floors, and a moisture barrier for underground structures.

APTC Leakproof MB2K is solvent free with a low VOC and excellent adhesion properties.

Uses

APTC Leakproof MB2K has multiple areas of use:

- General primer for Leakproof waterproofing systems
- Vapour barrier / barrier primer system to protect waterproofing membranes on damp surfaces
- Moisture barrier on the negative side of underground wall structures (basements retaining walls etc) to prevent moisture infiltration and seepage
- Barrier coating system on walls and floors to protect finishes (paints, carpets, vinyl & timber flooring, levelling compounds) from residual moisture, vapour, rising damp and efflorescence.
- Waterproof coating for potable water storage applications

Application areas:

- Retaining walls, basements, lift wells
- Concrete tanks, aqueducts, reservoirs, fish ponds
- Under timber floors/vinyl overlays
- Potable water applications

Suitable substrates: Concrete, concrete block, screed & render, masonry, timber, compressed fibre sheeting including James Hardie Scyon™ Secura™.

Features & Benefits

Water based	Outstanding adhesion properties
Low VOC	Compatible with Leakproof waterproofing systems
Convenient 1:1 mixing ratio	Complies with AS 4020 for potable water storage
Solvent free	Resists up to 250Kpa of hydrostatic pressure

Specifications & Technical Properties

	METHOD/STANDARD	
APPEARANCE		Part A: White Part B: Light grey
FORM		Viscous liquid
SPECIFIC GRAVITY (MIXED)		1.25
HYDROSTATIC WATER PRESSURE RESISTANCE		2.5 bar
WATER VAPOUR TRANSMISSION (2 Coats @ 200 micron DFT)	ASTM E96 Desiccant method	1.8g/m ² /24 hours

Surface Preparation

All surfaces and substrates to be waterproofed must be clean, sound and dry without any surface water. The substrate must be smooth and free of any voids with all loose particles, grease, oils, silicones, curing compounds, laitance and any contaminants removed before the waterproofing application begins. Structurally unsound layers must be mechanically removed.

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.

- Masonry surfaces should be pointed flush and all other surface defects, voids, cracks, holes, or damaged sections should be filled and levelled before application begins
- Sand/cement render screeds- must be allowed to cure for a minimum of 7 days before application

Mixing

APTC Leakproof MB2K must be thoroughly mixed before application.

- Lightly stir parts A & B to ensure a uniform consistency
- Combine equal parts of Part A and B into a clean mixing pail/bucket
- Using an electric mixer with paddle attachment, thoroughly mix the contents of pail at a low-medium speed for 3 minutes until a uniform colour and consistency is achieved
- Allow product to settle for 5 minutes before use
- **Pot life is 2 hours. Do not mix any more than can be used in this time.** Any unused product that has exceeded its pot life or working time must be discarded.

Application

On floor surfaces, product can applied using a squeegee, stiff broom or medium/long nap roller whilst on walls a medium-long nap roller is recommended.

Thoroughly work the product into the surface to ensure optimal absorption and penetration into the substrate, and to fill any voids or pinholes

Check the dry film for pinholes and recoat as required

Application cont'd:

General primer and adhesion promoter:

Apply 1 x coat at a rate of 1lt per 10m² to achieve a wet film thickness of 100 micron and a dry film thickness of 50 microns

Vapour barrier in waterproofing applications:

- On damp or green substrates with a residual moisture reading higher than 80% (when tested in accordance with ASTM F2170) or 5% moisture content (when tested in accordance with ASTM F2659) and with the moisture content falling

Apply 1 x coat at a rate of 1lt per 5m² to achieve a wet film thickness of 200 microns and a dry film thickness of 100 microns

Moisture barrier coating in the follow applications:

- To protect walls and floors against rising damp and continuous moisture
- Prevention of efflorescence on walls and floors
- As a waterproof coating for use in potable water storage containers and underwater/submerged applications

Apply 2 coats at a rate of 1lt per 5m² per coat to achieve a total dry film thickness of minimum 200 microns. Apply the second coat at right angles to the first

* The use of a moisture meter is recommended when testing substrate moisture content

Regular use of a wet film gauge is recommended during the application process to ensure the correct dry film thickness is achieved

Use	Coverage	Wet film thickness	Dry film thickness	Coats
General primer	1lt per 10m ²	100 microns	50 microns	1
Vapour barrier	1lt per 5m ²	200 microns	100 microns	1
Moisture barrier	1lt per 5m ² per coat		Minimum 200 microns	2

Finishings:

APTC Leakproof MB2K is compatible with most commercially available paints, surface coatings and screeds.

For detailed information on the installation of finishings over this product, please contact APTC Australia.

Drying

Pot life	2 hours
Recoat time per coat	4 hours
Application of finishings	24 hours
Immersion	10 days

Drying times are based on 23°50% RH and can be affected by surface and ambient temperature and high relative humidity. Allow for longer curing times in cold, damp or humid weather.



Coverage

Coverage rates and total coverage shown will vary depending on the application and condition of the substrate and are a guide only. Uneven and porous substrates will require more coverage to achieve the film thickness specified above.

Size	Consumption rate (per coat)	Total coverage per kit (2 coats)*
8lt kit	1lt per 4-5m ²	16-20m ²
20lt kit	1lt per 4-5m ²	40-50m ²

Clean up

Clean all tools and equipment immediately after use with warm water and soap or detergent. Once dry, product can only be removed by mechanical means.

APTC Leakproof MB2K will cure underwater—do not leave tools and equipment soaking.

Packaging

8 litre & 20 litre kits

Storage & Shelf Life

Store unopened and off the ground in a cool, dry and weatherproof place out of direct sunlight

Shelf life: 12 months from date of manufacture in original unopened packaging.

Limitations

- Do not apply when surface or ambient temperature is above 35°C or below 5°C
- Do not apply if it is raining or rain is imminent
- Curing times of **APTC Leakproof MB2K** will be reduced when applied in conditions below 10°C or when relative humidity is higher than 80%
- Do not apply over standing water
- Do not apply to steel or metal surfaces
- When used as a vapour or moisture barrier, all active water leaks must be treated with a suitable setting cement or water plug before the application
- **APTC Leakproof MB2K** is not trafficable and must be covered by a floor topping, coating or similar. Do not leave permanently exposed to UV light
- When applied in enclosed areas such as water tanks, adequate ventilation must be provided during curing to enable adequate evaporation of the coating
- 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.

May cause skin irritation. Keep out of reach of children.

SKIN: If product comes into contact with the skin, remove contaminated clothing wash off with warm soapy water. Seek medical advice if irritation occurs. **SWALLOWED:** Give a glass of water and seek medical advice.

EYES: In case of contact with eyes , wash out immediately with fresh running water. Keep eyelids apart and away from eyes and move occasionally by lifting upper and lower lids. Seek medical advice immediately.

INHALATION: Remove from contaminated area and 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.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.