

# Keratrade

# UTM

## under tile membrane

### class 3 waterproofing membrane



**X TecGen**  
**CERTIFIED CLASS III MEMBRANE**  
 AS/NZS 4858 / AS 4654.1

Uses: **Internal / External**  
 Coverage: **10m<sup>2</sup> ( 2 coats)**  
 Between coats: **2 hrs**  
 Before tiling: **24 hrs after 2nd coat**  
 Work time: **45 min @25°C**  
 Clean Up: **water**  
 App Temp: **10-35°C**  
 VOC Rating: **<1g/L**  
 (US RULE 1168)  
 Size: **19.5 KG**

#### Keratrade UTM Under Tile Membrane

Keratrade UTM Under Tile Membrane is a one-component, water-based polyurethane waterproofing membrane system classified as Class 3. It complies with AS3740 and AS/NZ 4858 and is designed for easy application and . AS/NZ 4654.1 for external applications

#### FEATURES

- High Elasticity & Ease of Application: Ensures flexibility and simple application process.
- Quick Recoating: Can be recoated in 1-2 hours at 23°C and 50% RH
- Tiling Ready: Tiling can typically be done the next day in most conditions.
- Compatibility: Compatible with Kerakoll & Keratrade adhesives.
- Reinforced with Clump-Free Fibers: Enhances durability and strength.
- No Mixing Required: Ready-to-use product for convenience.
- Chemical Resistance: High resistance to detergents and bleach.
- Post-Curing Stability: Will not re-emulsify after curing and does not embrittle with age.
- Excellent Adhesion: Strong adhesion to various substrates, including concrete, rendered masonry, wet area plasterboard, FC sheeting, and plywood.
- Application Methods: Can be applied using a brush, roller, or trowel.

#### SUBSTRATES

Keratrade UTM Under Tile Membrane is suitable for the following substrates:

- Concrete
- Cement Rendered Masonry
- FC Sheeting
- Water-Resistant Plasterboard
- Structural Plywood (Type A, stamped "PAA JAS-ANZ" to AS/NZS 2269-2004)

#### COMMON APPLICATIONS

Keratrade UTM Under Tile Membrane can be used in a variety of applications, including:

- Internal Wet Areas: Suitable for use in showers, bathrooms, kitchens, laundries, and toilet areas when installed in accordance with AS/NZ 3740.
- External Surfaces: Can be applied under tiles or other wearing surface systems for external balconies, rooftops, and podium levels when installed in accordance with AS/NZ 4654.2.

#### SUBSTRATE PREPARATION

Proper preparation of the substrate is crucial for optimal adhesion and performance when applying Keratrade UTM Under Tile Membrane. Ensure all substrates meet the following requirements: Structurally Sound: Substrates must be stable and capable of supporting the membrane application.

**Clean:** Remove all contaminants such as oils, grease, curing compounds, coatings, and adhesive residues.

**Dry or Damp:** Surfaces should be either dry or damp but free from standing water.

**Smooth:** Ensure the surfaces are smooth, with no voids or protrusions.

**Untamined:** Prevent contamination from preceding trade activities.

#### Substrate Curing Times

Proper curing of substrates is essential to ensure the waterproofing membrane's performance:

**New Concrete and Render:** Cure for a minimum of 28 days.

**Sand & Cement Screeds and Polymer-Modified Renders:** Cure for at least 7 days.

Adhering to these preparation and curing guidelines ensures the effectiveness and longevity of the Keratrade UTM Under Tile Membrane system.

#### PRIMING – Porous Substrates

Apply Keratrade or Kerakoll Porous Primer as a primer coat for all applications on porous substrates to ensure proper surface preparation. Porous substrates include:

- Concrete
- Screeds
- Renders
- Water-Resistant (WR) Plasterboard

Using Keratrade or Kerakoll Porous Primer enhances adhesion and ensures the effectiveness of the Keratrade UTM Under Tile Membrane waterproofing system.

#### PRIMING – Non-Porous Substrates

When using Keratrade UTM Under Tile Membrane, it is essential to account for the substrate type. Proper preparation and priming are critical to ensuring an effective waterproofing system.

##### Non-Porous or Impervious Substrates

Non-porous substrates, which retain water as raised droplets that do not easily soak in, require special preparation. If the concrete surface has been overworked or burnished during placement, it may become non-porous. In such cases, use mechanical abrasion techniques, such as captive shot blasting or vacuum grinding, to open the substrate pores before applying the Non-Porous Primer.

##### Rigid Plastic and Metallic Substrates

For rigid plastic and metallic surfaces, apply Keratrade or Kerakoll Non-Porous Primer as directed in the product's Technical Data Sheet (TDS). These substrates include:

- PVC drainage outlets and penetrations
- Aluminium angle water stops
- Brass tap bodies
- Copper or galvanised penetrations
- Stainless steel drains and gutters

Refer to the Technical Data Sheet (TDS) for detailed application instructions. Proper preparation and priming are essential to ensuring the success of the waterproofing system

Item Code: **KERUTM-19.5KG**

**Keratrade** - A GreenBuilding Company  
 88 Sutton Street, Nth Melbourne VIC 3051

**CALL: 1300 NO HARM (1300-66-4276)**

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**keratrade.com.au**

Store the product securely, and check with your local council regarding the disposal of contents. Dispose of packaging thoughtfully and recycle where possible. Keep out of reach of children. If you feel unwell, consult a doctor. For more information, refer to the Safety Data Sheet (SDS) available at [www.buildgreen.au](http://www.buildgreen.au)

#### GUARANTEE

BuildGreen guarantees that Keratrade Products are free from manufacturing defects and will meet any applicable specifications published by us for a period of 10 years from the date of purchase. Refer to the BuildGreen Guarantee.

#### DISCLAIMER

The technical details and recommendations are provided based on the best knowledge at the time. It is the user's responsibility to ensure the correct use and handling of the products in line with applicable Australian Standards. Users should verify that the product is appropriate for their specific applications and meets system specifications. We reserve the right to change information without prior notice as part of ongoing research and development.



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## PRIMING – Moist or Damp Surfaces

Keratrade UTM Under Tile Membrane is not a vapour barrier and is not intended to stop negative hydrostatic pressure. If a substrate is exposed to hydrostatic pressure from the negative side, Keratrade Keraseal must be applied first and allowed to fully cure before applying the Keratrade UTM Under Tile Membrane.

For detailed information on the application of Keratrade Keraseal, refer to the Keratrade Keraseal Technical Data Sheet. Proper application of these products is essential for effective waterproofing in conditions involving hydrostatic pressure.

## BOND BREAKER

Keratrade Ultraseal Flex must be applied as a minimum 12mm x 12mm coved bead over the dry primer coat in areas where bond breaker joints are required. Alternatively, Keratrade or Kerakoll bandage may be used.

## Key areas include:

- Internal corners
- Changes in direction of substrate planes (e.g., wall/floor, wall/wall)
- Hob/wall junctions
- Pipe penetrations
- Tap bodies
- Water stops
- Drainage outlets

Using Keratrade Ultraseal Flex or Kerakoll, BT Tapes or Aquastop 120 bandage in these locations helps accommodate movement and preserves the integrity of the waterproofing system.

## MEMBRANE APPLICATION

Keratrade UTM Under Tile Membrane is a two-coat system with the following application guidelines:

- Application Method: Can be applied using a brush, roller, or trowel.
- Coat Thickness: Each coat should be applied at a uniform thickness of 0.8 mm, resulting in a total wet film thickness of 1.6 mm after both coats.
- Maximum Thickness: Do not exceed 1.6 mm per coat.
- Coverage Measurement: Use a wet film gauge to ensure the coverage is adequate for each coat.
- Allow 72 hours at 22°C and 50% relative humidity before performing a flood test on the installed system. Ensure that all joints and other critical areas are completely dry before conducting the test.
- Following these guidelines ensures the optimal performance of the Keratrade UTM Under Tile Membrane waterproofing system.

## COVERAGE

For Keratrade UTM Under Tile Membrane, a minimum dry film thickness of 1.0 mm after two coats is required. A 19.5kg pail will cover approximately 10m<sup>2</sup> based on the application of two coats. Ensuring the correct thickness and coverage will help achieve the desired waterproofing performance.

| APPLICATION AND COVERAGE               |                                |                    |
|--|--------------------------------|--------------------|
| APPLICATION                            | WET FILM THICKNESS             | DRY FILM THICKNESS |
| 1st Coat                               | 0.8mm                          | 0.5mm              |
| 2nd Coat                               | 0.8mm                          | 0.5mm              |
| Total finished thickness after 2 coats | 1.6mm                          | 1.0mm              |
| Theoretical coverage per 15L Pail      | 10m <sup>2</sup> for two coats |                    |

## CLEAN-UP

Warm soapy water will remove product from tools & equipment prior to full cure.

## STORAGE & SHELF LIFE

12 Month shelf life when stored unopened between 5°C and 30°C. Protect from excessive heat, direct sunlight, moisture and freeze/thaw.

## LIMITATIONS

Keratrade UTM Under Tile Membrane is a one-part system and must not be diluted with water or any other liquid.

Important Installation Guidelines:

- Substrate Conditions: Do not apply the membrane on wet substrates (standing water), contaminated surfaces, or friable substrates.
- Dry Film Thickness: Ensure a minimum dry film thickness of 1.0 mm after two coats for effective performance.

## TEMPERATURE RESTRICTIONS:

Do not apply Keratrade UTM Under Tile Membrane when the air and substrate temperatures are:

- Above 35°C
- Below 5°C

Adhering to these limitations ensures optimal performance and longevity of the membrane.

## APPLICATION RESTRICTIONS

Keratrade UTM Under Tile Membrane must not be applied directly to lightweight concrete surfaces.

Hobs Made of Autoclaved Aerated Blocks (e.g., Hebel):

Saturate the hob with two coats of Kerakoll Active Prime Fix to consolidate and seal the substrate.

This process prevents pinholing in the membrane and ensures the hob has sufficient strength to support tiling.

Proper preparation of lightweight substrates is critical to achieving a durable and effective waterproofing system.

## SURFACE PREPARATION AND APPLICATION GUIDELINES

- Saturate the Surface: Ensure the correct primer, as specified in the primer's TDS, is applied to effectively consolidate and seal the surface for waterproofing.
- Strength for Tiling: Confirm that the substrate is sufficiently strong to support tiling on the hob.

## LIMITATIONS OF Keratrade UTM UNDER TILE MEMBRANE

- Not for Constantly Submerged Environments: Keratrade UTM Under Tile Membrane is not suitable for environments that are constantly submerged in water, such as swimming pools, ponds, and spas.
- Not for Negative Side Pressure: This membrane is not designed to handle negative side substrate head pressure. For such situations, Keratrade Keraseal is recommended.

## TILING OVER Keratrade UTM UNDER TILE MEMBRANE

- Tile Adhesive: Buildgreen advises using an approved Kerakoll or Keratrade tile adhesive when tiling directly over Keratrade UTM Under Tile Membrane.

## WARRANTY CONSIDERATIONS:

If a competitor's tile adhesive is used, Buildgreen cannot guarantee the integrity of both the tiling and waterproofing installation. Following these guidelines is essential to ensure optimal performance, longevity, and to maintain the warranty on the products used.

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