

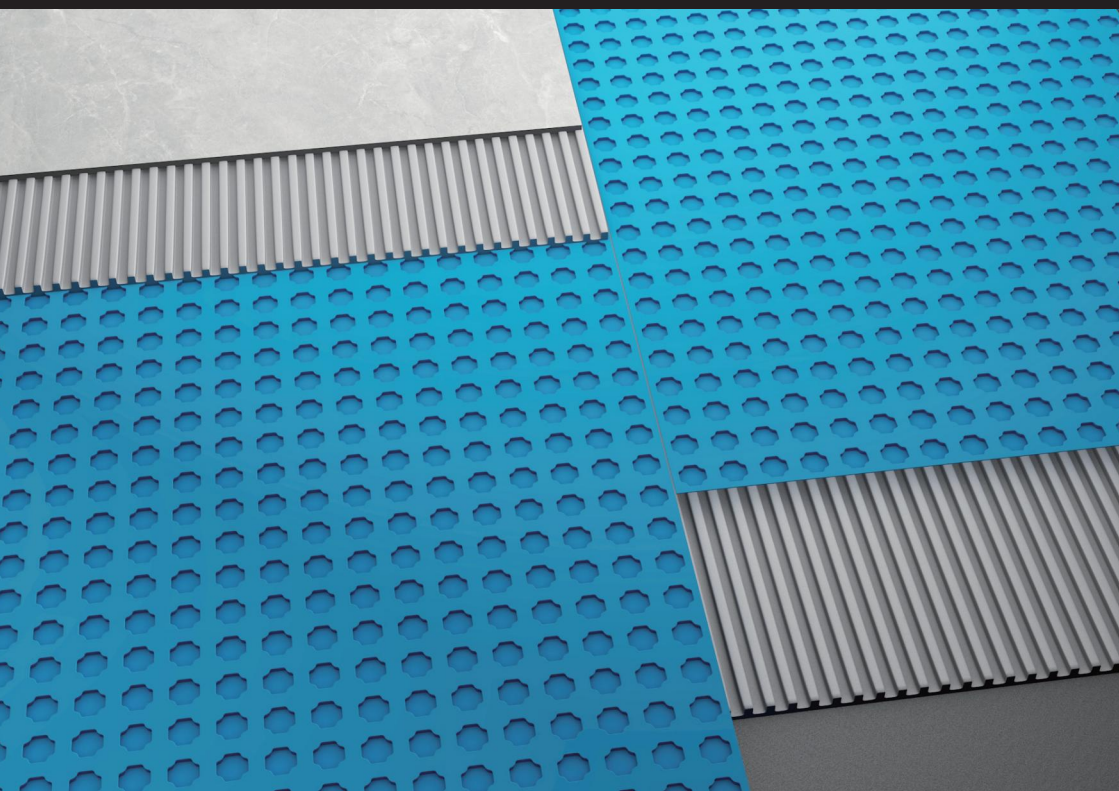
Technical Data Sheet

Uncoupling Membrane

TUM3-0105

TUM3-0110

TUM3-0130



Terraces, Balconies & Indoor Areas

STRUCTURE: A disconnecting membrane comprising an HDPE dimpled membrane layer with a roughened surface and a polypropylene fabric.

System Advantages

Easy cut, simply cut

Quick installation

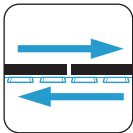
Provides a waterproof layer beneath the tiled surface

An innovative dimpled design that reduces the adhesive requirements

Used on various substrates

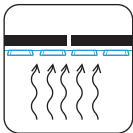
Main Functions

1. Uncoupling



Tetti TUM3 uncoupling membrane provides uncoupling through its rib design to compensate the different movements between tiled surface and the substrate, eliminating the major tile cracking and delamination.

2. Vapor Management



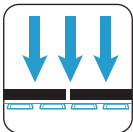
Tetti TUM3 membrane's design offer extra channel and space for the vapor beneath the subfloor allowing it to form a vapor cycling, which can manage the vapor effectively.

3. Waterproofing



Tetti TUM3 made of Polyethylene with strong waterproofing, guards your subfloor from vapor penetration and mold growth especially for the moisture-sensitive areas, such as wet room.

4. Load Distribution



Tetti TUM3 membrane's patent design allows loads to be distributed from tiles to the subfloor. Each round square studs with cavity full filled with mortar become an incompressible structure, act like pillars in a building structure.

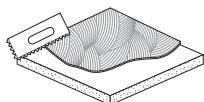
Technical Data Sheet of Uncoupling Membrane

Product	Tetti TUM3 Uncoupling Membrane
Material	Polyethylene (HDPE)film top; polypropylene (PP) non-woven bottom
Application	Decoupling or sealing, designed for ceramic tiles, floor or stone installation, prevent tile from cracking and floor from moisture.
SKU	TUM3-0105 1×5m TUM3-0110 1×10m TUM3-0130 1×30m
Weight	650g per square meter
Thickness	3.43mm
Color	Blue 299C
Installation Temperature	5 °C to 40 °C , but limited by tile adhesive specification
Storage Temperature	Max. 45 °C
Assumed working life	25 years
Waterproofing	Proven (Tested by European professional testing lab)
Crack Bridge	1.58mm, EN-15812, with crack protection (Tested by European professional testing lab)
Tensile Adhesive	425N, ISO10319:2015. (Tested by European professional testing lab)
Straight at Max load	423N, ISO10319:2015 (Tested by European professional testing lab)
Robinson Wheel Test	ASTM C627-18 The membrane go through all 14 cycles with no damage to the system.
High-Low Temperature Test	Test in -30-90 °C for 144hours, no melting, no ageing and no cracking
Statement on dangerous Substance	None included
Packing	Shrink in plastic film and label

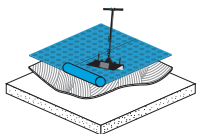
Installation

Before laying **Tetti TUM3** Membrane over, the old substrate must be demolished and a new clean flat substrate installed.

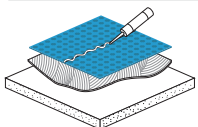
Inserting **Tetti TUM3** Membrane does not eliminate the need for expansion and perimeter joints, for which it is necessary to follow the instructions in the standard UNI 11493-1.



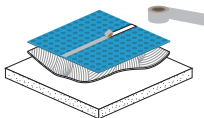
01. Adhesive must be used to lay **Tetti TUM3** Membrane over the substrate, using a notched trowel.



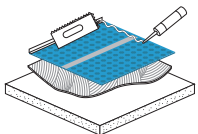
02. **Tetti TUM3** Membrane must be laid over the designated area, with the spunbonded clad side facing down. **Tetti TUM3** Membrane must then be pressed down into adhesive with the aid of a float or Tetti Roller UMR-18, applying pressure to **Tetti TUM3** Membrane must then be covered with another layer of the class C2 (or greater) cementitious adhesive. Prevent the creation of air pockets. The tiles can then be laid without waiting for it to dry, using a notched trowel of dimensions appropriate for the size of the tiles to be laid. Then proceed with point 7-8.



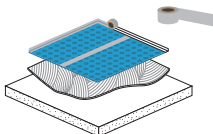
03. Other measures are required during the laying stage to provide the additional waterproofing function. After laying **Tetti TUM3** Membrane, it is necessary to seal the joints between the adjacent sheets with adhesive, spreading it with the smooth side of the notched trowel.



04. Then waterproofing band must be applied.

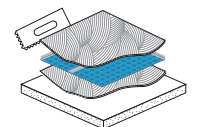


05. The same procedure must be followed for the perimeter waterproofing, then adhesive is applied.

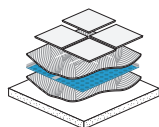


06. Then waterproofing band must be laid. At the joint, waterproofing band must overlap it by at least 50mm. The same procedure must be used for the perimeter joints, using waterproofing band centred in the floor / wall connection with adhesive.

(For outdoor applications in particular, it is important to lay the cladding over the entire area, in compliance with the current reference standard 11493-1)



07. The class C2 (or greater) cementitious adhesive must be spread followed by the laying of the finishing product.



08. Embed the tiles upon the adhesive with the help of a rubber float or Tetti roller.