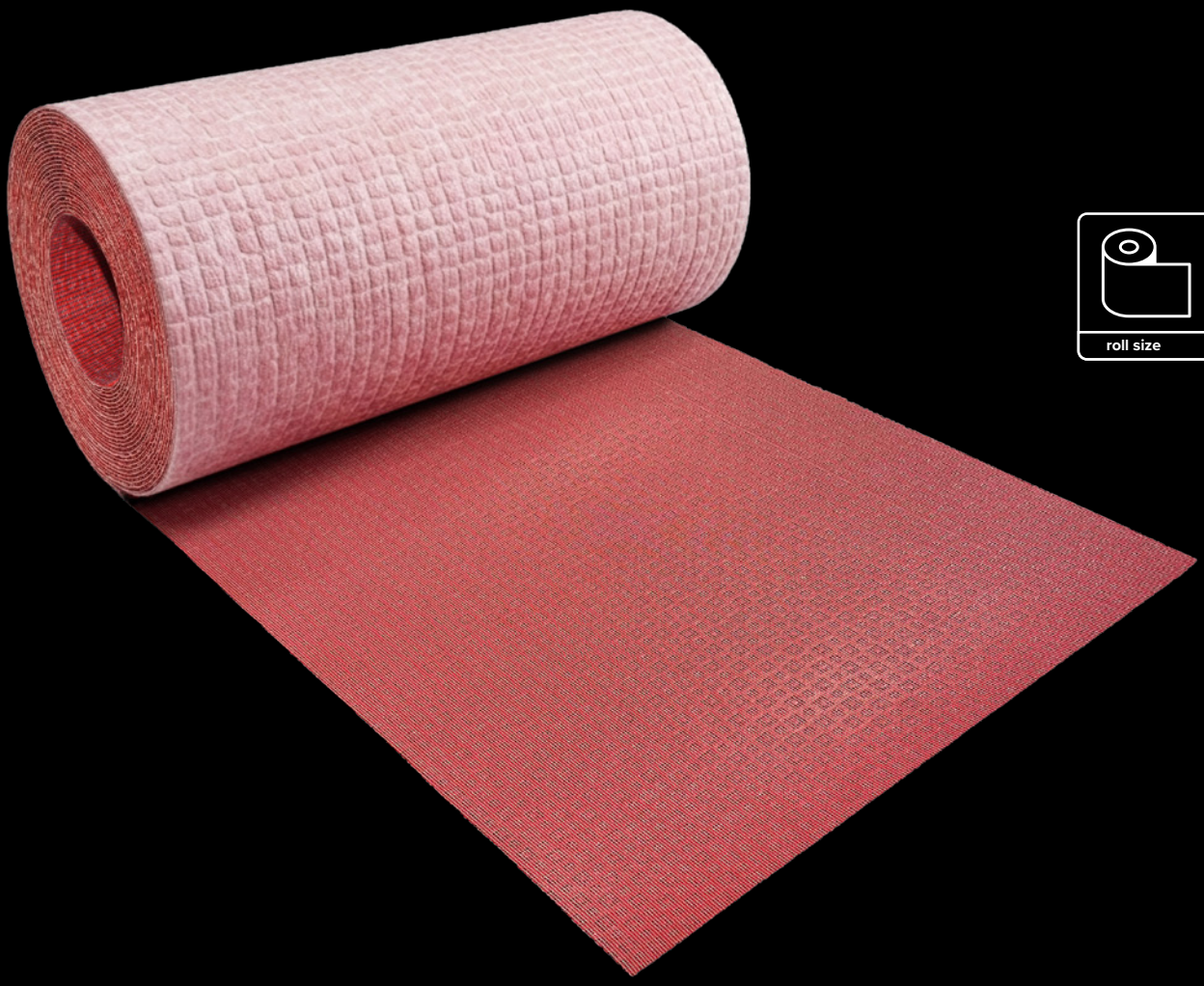
ProFlex Mat

Decoupling Membrane



25 YEAR GUARANTEE

Length: 30m
Width: 1m
roll size

Product Selection Guide

USPs:	Suitable surfaces:
✓ Allows Tiling onto Problematic substrates	✓ Sand Cement screed
✓ Suitable for use with underfloor heating systems	✓ Calcium sulphate screed (anhydrite screed)
✓ High adhesive tensile strength	✓ Mastic asphalt screeds
✓ 2 year shelf-life	✓ Concrete
	✓ Synthetic laminates and coatings
	✓ Plywood and chipboard
	✓ Wooden floorboards

ULTRA® TILE

ADHESIVES • GROUTS & SILICONES • TILING ANCILLARIES • LEVELLING COMPOUNDS

TECHNICAL DATASHEET

DESCRIPTION

UltraTile ProFlex Mat is a decoupling membrane for installing tiles, slabs and natural stone over problematic substrates. It provides crack bridging up to 0.83mm, strong point-load resistance and durability through 400,000 test cycles without damage. It absorbs lateral movement, shrinkage, and expansion/contraction in substrates, so those stresses do not transfer to the rigid tiles and grout. UltraTile ProFlex Mat is also suitable for use with underfloor heating to prevent cracks appearing in the tiling installation as the floor expands and contracts with each heating cycle. It can be installed on existing substrates or newly laid screeds, once they have set and suitable for traffic.

SURFACE PREPARATION

Ensure that the substrate is sound, solid and level. Complete any levelling work using the appropriate UltraTile leveller before fitting the mat. Prime the prepared surface with UltraTile Proprimer. UltraTile ProPrimer has been specifically developed to be used as a primer for use with cementitious tile adhesives to provide improved sealing and bonding properties for a variety of substrates.

Calcium Sulphate Floor Screeds: It is essential that the floor is fully dry, if in doubt always check the moisture level of the floor is below 75%RH using a hair hygrometer before continuing. This type of floor can also suffer from surface laitance issues creating a weak surface layer and therefore they are highly likely to require specialist mechanical abrasion as indicated above.

Timber/Wooden Floors: All chipboard and T&G flooring should be sound, solid and be able to carry the intended load.

Underfloor Heating (UFH): If UFH is being installed it must be fully commissioned before starting the tiling process to ensure it is in full working order. Once the UFH has been commissioned it can be set to a low level to provide a max floor temperature of 15°C whilst the tiling and grouting processes are undertaken. It is critical that this temperature is not exceeded as this can force dry the adhesive and grout with the potential of causing cracks in the installation or tiles to de-bond. Maintain this temperature for a minimum period of 7 days while the installation cures and hardens. After this time the UFH can be brought up to the required room temperature slowly at a rate of 5°C per day.

Note: All Levelling and Smoothing Should be completed prior to application of UltraTile ProFlex Matting as we **DO NOT** recommend levelling over the matting.

INSTALLATION

UltraTile ProFlex Mat should be installed between 5°C and 25°C. ProFlex Mat should be installed using either, ProFlex SP, ProGrip FX or ProFlex SPES, and grouted with a suitable ProGrout. Care should be taken to confirm that the selected materials are suitable for the expected use and mechanical loads to be experienced by the installation.

Measure and cut the UltraTile ProFlex Mat strips to size. Dry-lay the strips and make sure that the mat is laid edge to edge and that the perimeter is left open (formed with a 10mm joint).

MOVEMENT JOINTS: DO NOT bridge expansion joints. The UltraTile ProFlex Mat should be cut at the point of the expansion joint allowing a minimum of 6mm joint between the matting.

NOTE: UltraTile do not recommend the use of ProFlex Mat over the UltraTile ProDeck.

APPLICATION: Apply either, ProFlex SP, ProGrip FX or ProFlex SPES onto the substrate and spread the tile adhesive using a 6x6mm notched trowel. Embed the cut-to-size strips with the backing fleece facing downwards into the adhesive over the entire surface and press down with a pressure roller or similar ensuring a 100% coverage. Allow the adhesive to set. **DO NOT** install the UltraTile ProFlex Mat without adhesive. UltraTile would always advise that tiling installers follow the guidelines for tiling as laid down in BS EN5385. Keep perimeter and connection joints completely free of tile adhesive.

POINTS OF NOTE

For load-related reasons, UltraTile ProFlex Mat are not suitable for the installation of thin floor tiles (slim tiles e.g. 4mm thick). The use of these tiles involves a risk of breakage and fractures. Furthermore, small format tiles measuring less than 50mm x 50mm may not be used. Depending on the system, decoupled flooring surfaces can produce a modified sound pattern when walked over by hard soles or high heels.

TECHNICAL DATA	
Product Description:	Decoupling mat for installing tiles
Unit Size:	30m Roll
Material:	Polyethylene
Softening temperature:	120°C
Water vapour resistance:	160m equivalent air layer
Filling volume of studs:	1.2 litres/m²
Distance between studs:	Approx 21mm +10%
Adhesive Tensile strength:	0.4 N/mm² (average value)
Crack Bridging:	0.83mm (with applied force of 7kN)
Point load on centre of tile:	11.3kN (at a distance of 0.57mm)
Max deflection (clear width 660mm):	Concave: 12.3mm (applied force 11.41kN) Convex: 3.3mm (applied force 2.4kN)
Dynamic tests (clear width 660mm):	400,000 cycles at 1.8 mm without damage

STORAGE

Store in cool dry conditions. Storage temperature max. 45°C (store max. 2 pallets on top of each other).

SHELF LIFE

2 years in a dry environment; avoid direct contact with sunlight and heat sources.

HEALTH & SAFETY

This product is not classified as hazardous. However it is good practise to follow safe handling when using all products. Avoid splashes to eye and skin by using appropriate PPE protection while preparing, mixing and applying products. Always wash hands before consuming food and make sure that materials are kept safely out of reach of children and animals. A full Material Safety Data Sheet (SDS) for this product is available from www.instarmac.co.uk.

DISPOSAL

Please dispose of packaging and waste responsibly and in accordance with local authority requirements. Once cured and dry the product is inert and does not require special disposal. Uncured material should be disposed of accordingly to the local authority guidelines (see latest SDS from www.instarmac.co.uk).

QUALITY ASSURANCE

All Instarmac products are manufactured in a plant whose quality management system is certified/registered as being in conformity with BS EN ISO 9001, ISO 14001 and ISO 45001. Our products are guaranteed against defective materials and manufacture and will be replaced or money refunded if the goods do not comply with our promotional literature. We cannot however accept responsibility arising from application or use of our products because we have no direct or continuous control over where and how they are used. All products are sold to our conditions of sales, copies of which may be obtained upon request.

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