

Platon Flexi®



Decoupling mats for tiled surfaces



High quality decoupling
mats for permanently
crack-free and beautiful
tiled floors

Platon Flexi®

Functions that count

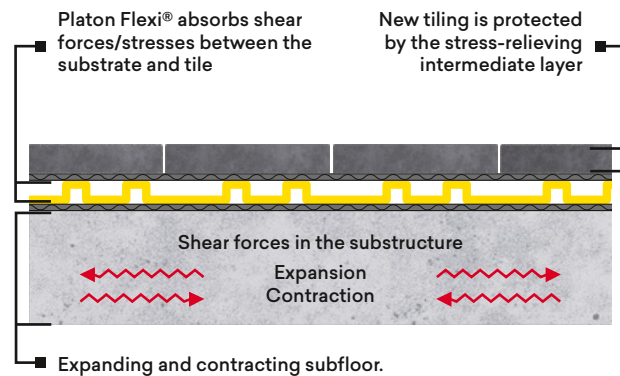
THE DECOUPLING PRINCIPLE

All subfloors can move and show signs of stress, shifting, vibrations or other kinds of movements. Therefore the surface covering and substrate should be decoupled. Decoupling means, that the substrate and surface covering have no direct fixed connection to each other, but are separated by the Platon Flexi® decoupling mat. The bottom of the mat is bonded to the substrate with a tile adhesive and with the decoupling mat in between, another layer of tile adhesive is used to bond the tile to the top of the mat. This creates good substrate conditions for tile installation while simultaneously separating substrate and the surface covering.

The benefit is clear: Stresses, vibrations, shear forces and component movements are absorbed by the Platon Flexi® decoupling mat and are not transferred to the surface covering, leaving the tile and grout free of damages.

This means that tiles can even be laid on wooden floorboards or placed on other difficult substrates. Like for example old tiled floors. Platon Flexi® thanks to its non-woven fleece backing absorbs movements caused by the drying of a wet screed or by temperature changes in underfloor heating systems.

Absorbs shear forces from the substructure

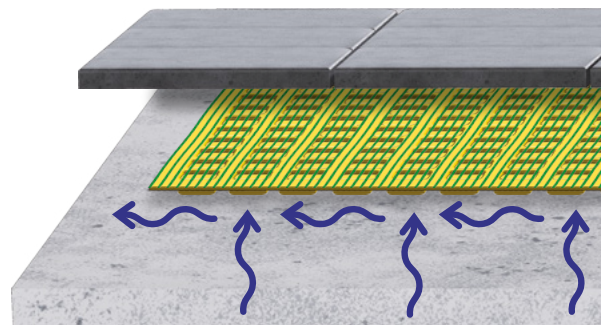


Crack bridging for substrates in need of renovation

Platon Flexi® is a shear force protecting layer that allows new tiles to be safely installed even when renovating old, cracked tiles/substrates. The mat protects against cracks transferring from the old substrate to the new covering.

Moisture protection in case of residual moisture in fresh screed

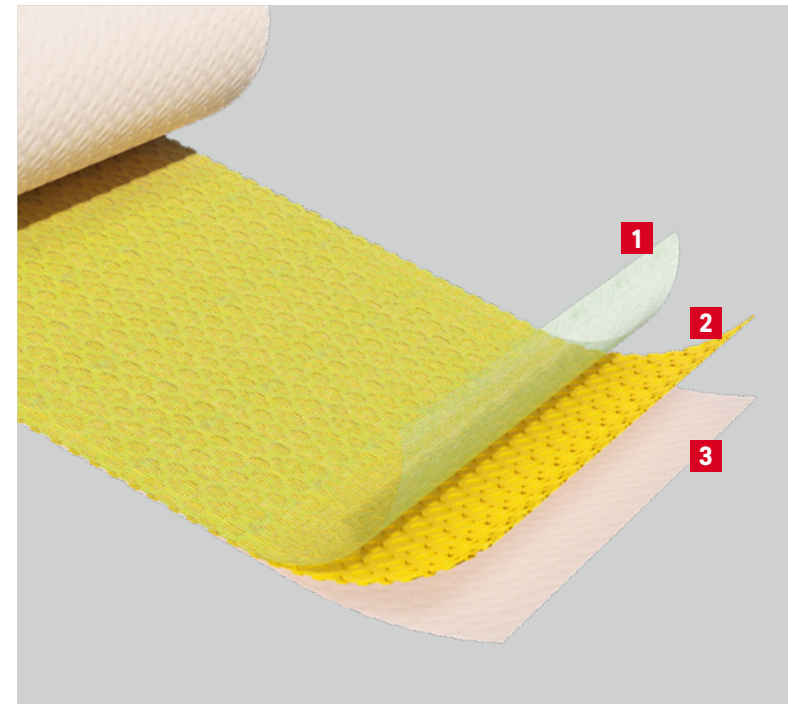
Platon Flexi® also functions as a vapour pressure equalisation layer in case of dampness from the subfloor. Fresh concrete and screeds with a residual moisture of approx. 2 % can be covered with Platon Flexi. This saves time and money in the construction phase.



Platon Flexi® Original



The original yellow decoupling mat



3-layer polypropylene construction:

1. Mesh on the top
 - Easy distribution of the tile adhesive
 2. Translucent dimpled sheet with optimised design
 - Low consumption of tile adhesive
 3. Water-jet fibre fleece
 - Optimum adhesion to the substrate
- PP material in all three layers ensures material stability
 - Suitable for industrial floors

Isola, with its Platon factory in Notodden, Norway, is the inventor of the dimpled membrane, and one of the resulting further developments is Isola's yellow decoupling mats, which have been widely used in the market for decades. The Platon Flexi® Original yellow decoupling mat consists of 3 layers. The core consists of a polypropylene (PP) dimpled sheet. PP non-woven fleece is laminated on the underside,

guaranteeing excellent substrate adhesion. While the thermo-bonded green and white mesh simplifies distribution improves adhesion and reduces the consumption of tile adhesive on the top surface to "only" 1.2 l/m². This 3-layer structure with its special material compatibility provides a secure layer for a safe and stress free tile installation.

PRODUCT SPECIFICATIONS

Material:	Polypropylene mesh, dimpled sheet and fleece
Mat height:	3 mm
Roll width:	100 cm
Roll length:	30 m
Mat colour:	Mesh: green/white, dimpled sheet = yellow, fleece = white

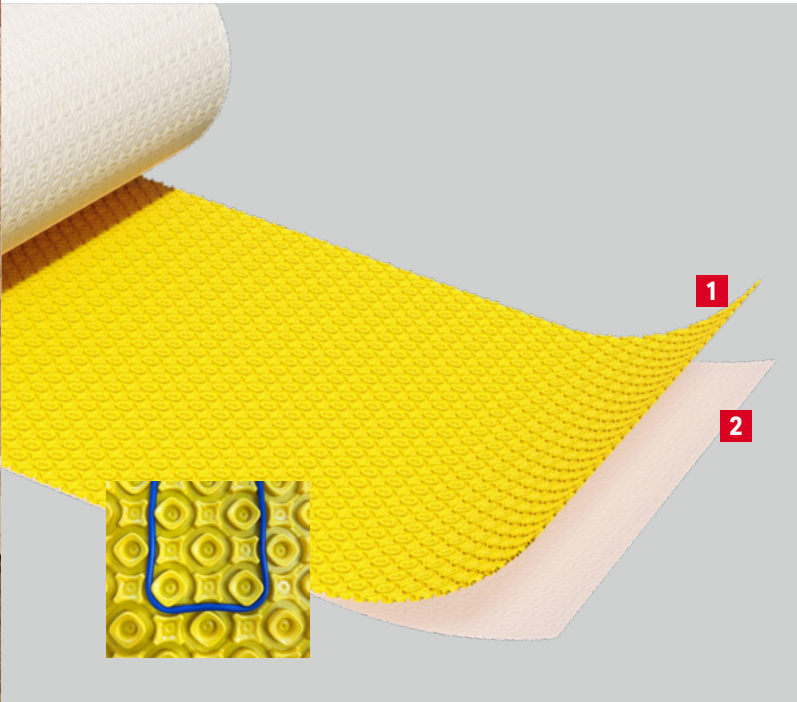
PRODUCT FEATURES

Crack bridging:	2 mm
Filling volume of the dimples:	1.2 l/m ²
Adhesive tensile strength:	0.2 N/mm ²
Robinson test:	extra-heavy
Storage:	upright with original packaging, in a dry place protected from sunlight



Platon Flexi® Heat

Decoupling and accommodation of heating cables in one product



2-layer polypropylene construction:

1. Dimpled sheet
 - Undercut dimple design for easy accommodation of heating cables
 2. Water-jet fibre fleece
 - Optimum anchoring to the substrate
- Suitable for heating cables from 2-5 mm
 - Suitable for indoor use

Platon Flexi® Heat is a two-layer product consisting of a dimpled sheet and a non-woven fleece laminated on the underside, both produced from polypropylene (PP). The fleece ensures good anchorage in the tile adhesive and distributes residual moisture in the substrate. The special undercut dimple structure simplifies the laying and fixing of heating cables in the 3-stud spacing in the mat and at the same time ensures good adhesion of the tile to the mat.

The tiles therefore achieves a good bond with the substrate. At the same time, the substrate and tiling are decoupled by Platon Flexi® Heat, so that any movements that occur are absorbed and the tiles do not suffer any damage.

PRODUCT SPECIFICATIONS

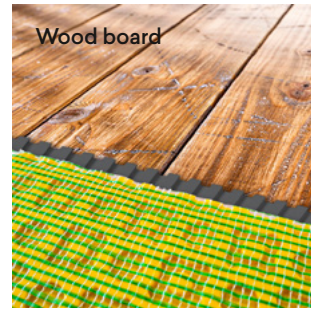
Material:	Polypropelen dimpled sheet and fleece
Mat height:	5 mm
Roll width:	100 cm
Roll length:	15 m
Mat colour:	dimpled sheet = yellow, fleece = white

PRODUCT FEATURES

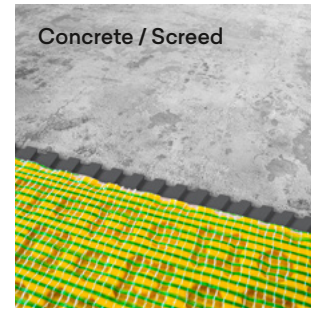
Crack bridging:	2 mm
Heating cable:	2-5 mm
Adhesive tensile strength:	0.2 N/mm ²
Robinson test:	extra-heavy
Storage:	upright with original packaging, in a dry place protected from sunlight

Substrates and accessories

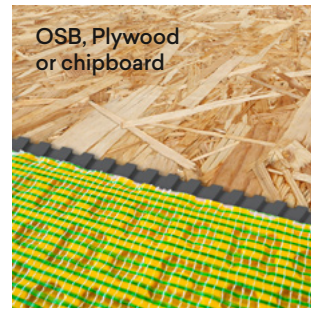
Suitable substrates



Wood board



Concrete / Screed



OSB, Plywood or chipboard



Old tiles

Platon Flexi® can be bonded to a variety of substrates. The substrate must be flat, clean, dry, structurally sound and adequately load bearing. All substrates must be free from material or debris which can impair the bonding of the adhesive. Suitable primer to be used when specified by the tile adhesive provider.

Expansion and control joints must be in accordance with current industry standards and satisfy project requirements. All expansion and control joints must be carried through to the finished floor/tile.

Where leveling is necessary this should be performed before installation of the decoupling mat.

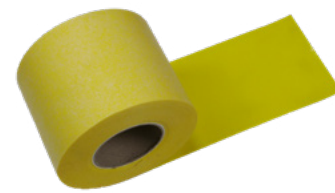
Accessories

Tile adhesive

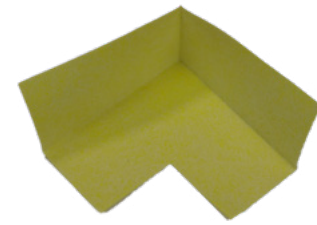
Use tile adhesive (polymer modified mortar) in accordance with ANSI A118.4, A118.11, A118.15, or classified as ISO 13007 C2 or better. Extended opening time is recommended.

Trowel

Square notch 4x4mm-6x6mm. Alternatively 6x4, 5mm v-notch.



Sealing tape FABV 050-G
width 120 mm, length 50 m



Internal corner piece FABI 050-G
side length 120 mm



External corner piece FABA 050-G
side length 120 mm

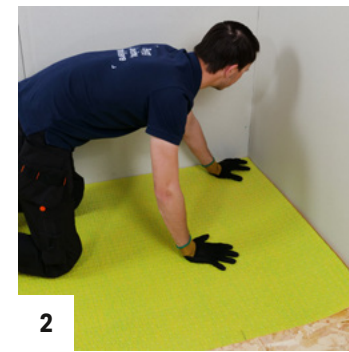
Installation

Preparation:

Check flatness, loadbearing capacity and rigidity of the substrate before installation. Clean and make preparations in accordance with tile adhesive specification. Use primer or pre-wetting of cement based substrates when needed. Honor and continue expansion and control joints in accordance with industry standards.



1



2



3



4



5



6



7



8



9

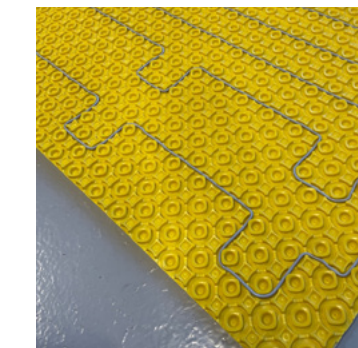


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User manual:

1. Measure the area where the matting will be installed. To prepare for any movement keep a 5-10 mm distance to any wall or solid structures when installing the mat. A caulk line can be used as reference for the first mat.
2. Check to see if the matting fits and correct distance is achieved before applying tile adhesive on the substrate.
3. Mix a suitable tile adhesive for the substrate to the high end of the water range. Use the flat side of the trowel to spread the adhesive. Add more tile adhesive and notch the area using a notched trowel sized from 4x4mm to 6x6mm depending on the substrate and tile adhesive specification.
4. Install the mat fleece side down with the needed 5-10 mm distance to the wall. Alternatively use the fold line to the wall-floor junction. Beware of any skinning of the tile adhesive. If skinning occurs, remove, and re-apply before installation the mat.
5. Use a float or carpet roller to apply pressure all over the mat embedding it into the tile adhesive. The mat will appear darker in the embedded areas. Lift a up a corner to check for full coverage. If adequate coverage is not achieved, remove tile adhesive and re-apply. Apply the next area of tile adhesive in approx 1 meter width in the same manner as described in point 4.
6. Align the next mat towards the first one and make sure the joint is butted.
7. Apply tile adhesive and embed the sealing strip into the tile adhesive at the joints. Overwork the strip with a flat trowel or pressure roller.
8. Apply tile adhesive to both floor and wall and embed the corner piece. Add more tile adhesive to floor, wall, and corner piece before overlapping the sealing strip by approximately 5 cm to the corner.
9. The mat is now ready for tiles to be installed. Use the flat side of the trowel to spread the tile adhesive observing complete filling of the cavities.
10. Notch size of the trowel is depended on the type of tile, tile size (minimum 50x50 mm) and tile adhesive. See tile adhesive specification in accordance with choice of tile.

Platon Flexi® Heat:



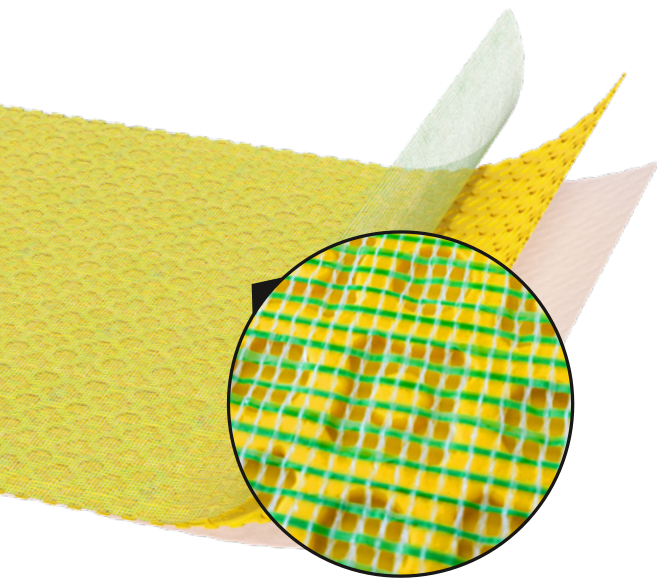
Installation of mat according to step 1-6. Installation of cables should always be performed by qualified electrician. The cables should be installed using 3-stud loop using the round dimples.

Cable thickness can be 2-5mm. **For cables less than 3mm more loops can be used to hold the cable as shown.** Always check and follow cable provider specification and installation requirements.

Continue installation according to step 7-10.

Build simply better

Platon Flexi® Original with unique benefits for laying



The 3rd layer makes the difference

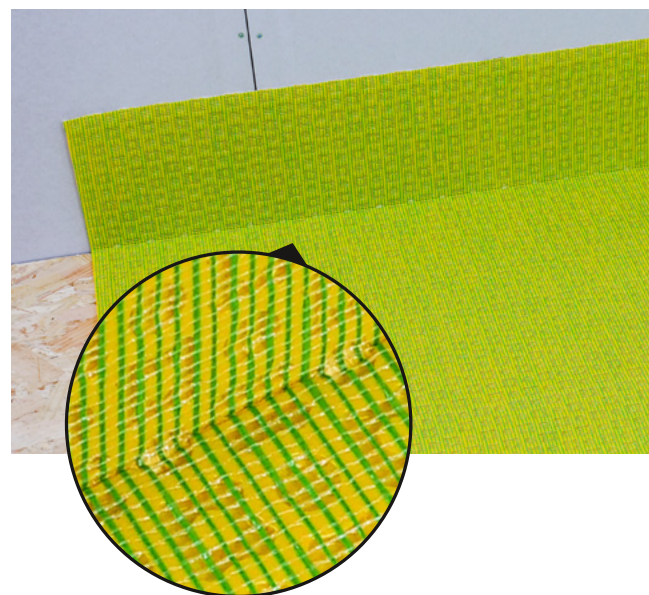
The mesh on the top of Platon Flexi® Original ensures quick, bubble-free application of the tile adhesive.

Demo video at:
youtu.be/MRu81xQOBKM



Wall connection

Platon Flexi® Original has a factory-applied folding edge, which means that the mat can simply be run up the wall or used as a rebate step for height differences. The wall connection with pre-fabricated rebate edge ensures improved vapour equalisation. Moisture is not 'trapped' but released and distributed into the living space through the rebate edge on the wall.



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***Build
simply
better***

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