

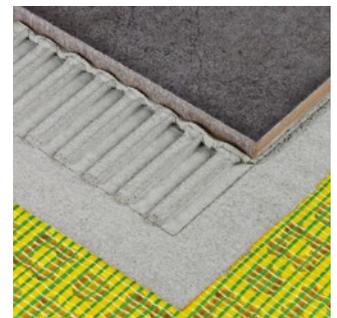
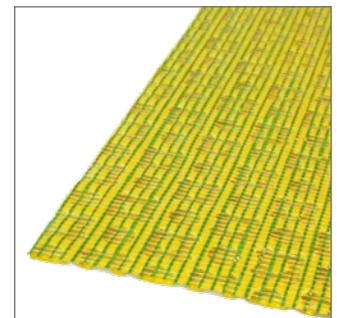
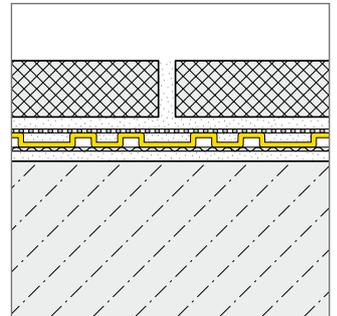
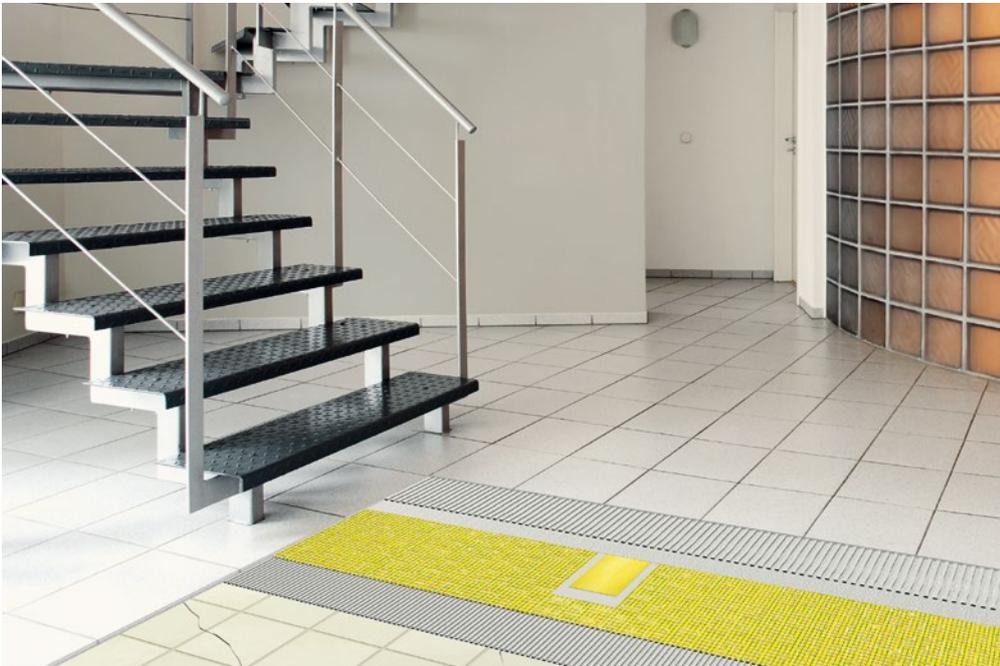
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# DURABASE CI++

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## Underlay mats for the decoupling and waterproofing of tiled surfaces

- Information Sheet -



### THE PROBLEMS:

#### 1. Cracks in the subfloor

Cracks in both existing and new sub floors can be transmitted into new coverings. DURABASE CI++ membrane prevents this happening by absorbing stress from sub floor movement.

#### 2. Stresses in the subfloor

Subfloor stress can occur for many reasons, concrete floors will continue to shrink and expand for long periods of time after installation. Wooden substrates can be affected by moisture in the air. Over recent years the growth in heated flooring has dramatically increased the degree of movement within such floors. This "hot and cold" cycle places great stress on the tiled covering.

#### 3. Damp from the subfloor

The air channels within the design of DURABASE CI++ membrane allow moisture that would be otherwise trapped escape. This controlled "release" prevents problems within moisture sensitive substrates. This is particularly important when laying onto anhydrite subfloors, residual moisture from the screed itself can collect under the tiles and cause damage to the adhesive layer. Particular attention should be made to the residual moisture in such projects before work commences.

### APPLICATION, FUNCTION; SUBFLOORS:

Used in conjunction with tiles, DURABASE CI++ decouples the tiles, bridges any cracks and has a waterproofing function. It also facilitates compensation for water vapour pressure if residual moisture is present. DURABASE CI++ decouples the flooring from the foundations. Any small cracks can also be bridged so that they do not affect the tiled surface. This makes it ideal for renovation work. With DURABASE CI++, tiles can be laid over screed as soon as it is possible to walk on the screed without causing damage (residual humidity approx. 4 %). Calcium sulphate screeds, which are sensitive to humidity, are protected at the surface from the ingress of further moisture.

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With underfloor heating, the air channels created by DURABASE CI++ quickly and evenly distribute heat below the tiled floor. DURABASE CI++ compensates for temperature-related stresses which occur in balconies and terraces. Used in combination with DURABASE WP or WPFB tape, the installation subsurface is protected from damp and the ingress of moisture.

#### Suitable substraces are:

- Cement screed
- Calcium sulphate screed (anhydrite screed)
- Hot screeds
- Mastic asphalt screeds
- Concrete
- Synthetic laminates and coatings
- Plywood and chipboard
- Wooden floorboards

For load-related reasons, DURABASE CI++ mats are not suitable for the installation of thin floor tiles („slim tiles“, e.g. 4 mm). The use of these tiles involves a risk of breakage. Furthermore, small format tiles measuring less than 50 x 50 mm 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. Please refer to the information in the installation instructions.

#### MATERIAL PROPERTIES:

DURABASE CI++ matting is made of yellow polypropylene with a mesh fabric and a backing fleece which is also made of polypropylene. Thanks to this material composition, the mats are resistant to many different chemicals (e.g.: salts, acids and alkali) at low concentrations. For application areas under heavy chemical loading, a check of the chemical concentration, temperature and exposure time must be carried out prior to using the mats.

#### INSTALLATION (quick guide):

1. The floor making up the foundation must be dry and free of any materials that would impair adhesion. It must be level and able to bear weight. Any possible corrections must be carried out prior to installation of the DURABASE CI++ mats.
2. Use a serrated trowel 4 x 4 mm to apply thin bed mortar to the professionally prepared subsurface. With most substructures, an hydraulically-binding flexible mortar or quick-bonding flexible adhesive in accordance with DIN EN 12004 / C2 can be used.  
N.B.: Never use a larger notched trowel than the size indicated above, otherwise the decoupling effect of the CI++ matting will be impaired.
3. Embed the entire surface of the backing fabric of the cut-to-size mats into the adhesive. Make sure the CI++ decoupling mat is not force fitted. Work in the matting using a pressure roller or other suitable tool.



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4. Always tape over mat joints using DURABASE WP or DURABASE WPFB tape. For inward and outward facing corners, use the prefabricated moulded parts. Work in expansion joints using loops of WP sealing tape to produce a waterproof seal.
5. For indoor applications, tiles can be laid immediately after adhesion of the DURABASE CI++ matting using the thin-bed procedure. Here, it is advisable to smooth out any mat depressions and then comb on the thin-bed mortar using the serrated trowel in a single work step. For outdoor flooring surfaces, tile laying may not commence until the CI++ filler has hardened.

### N.B.:

Please refer to our detailed installation instructions online at [www.dural.com](http://www.dural.com).

The generally recognised rules of good engineering practice must always be observed!

The following applies to all products / materials: suitability with respect to mechanical and chemical stresses must be checked carefully prior to installation of the mats.

Protect the material from long periods of exposure to sunlight.



### PRODUCT DATA:

<b>MATERIAL:</b>	Dimpled sheeting = PP, Backing fabric = PP, Mesh fabric = PP
<b>MAT HEIGHT:</b>	3 mm
<b>ROLL WIDTH:</b>	100 cm
<b>ROLL LENGTH:</b>	5 / 10 / 30 m
<b>MAT COLOUR:</b>	Dimple film = yellow, Backing fabric = white, Mesh fabric = green
<b>SPECIAL PRODUCT PROPERTIES:</b>	Resistant to chemicals, rotting, fungi and bacteria Stress classifications: A, AO, BO Temperature resistant: -40°C to +80 °C Exceptional tensile adhesion
<b>TEST CERTIFICATES:</b>	Tensile adhesion strength according to DIN EN 1348:2007, MPA Weimar CSTB 13/13-1193 TCAN-053-B#1
<b>STORAGE:</b>	Store in a dry place, away from sunlight

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