



# DURABASE CI++

Decoupling mat for tiled surfaces.



## TECHNICAL DIMENSIONS AND PRODUCT VARIANTS

Material	[Polyethylene]
Colour	yellow
Length	5 m, 10 m, 30 m
Height	4
Width mm	100 cm
Surface area (sqm)	5 m <sup>2</sup> , 10 m <sup>2</sup> , 30 m <sup>2</sup> , 120 m <sup>2</sup> , 160 m <sup>2</sup> , 180 m <sup>2</sup>
Strength mm	4

## PRODUCT VARIANTS

Ident	Height	Colour	Length
CI++ 5/1	4	yellow	5 m
CI++ 5/24	4	yellow	5 m
CI++ 5/1 (PE)	4	yellow	5 m
CI++ 5/24 (PE)	4	yellow	5 m
CI++ 10/1	4	yellow	10 m
CI++ 10/16	4	yellow	10 m
CI++ 10/1 (PE)	4	yellow	10 m
CI++ 10/16 (PE)	4	yellow	10 m
CI++ 30/1	4	yellow	30 m
CI++ 30/6	4	yellow	30 m
CI++ 30/1 (PE)	4	yellow	30 m
CI++ 30/6 (PE)	4	yellow	30 m
BM CI 10 (PE)	4	yellow	

### Data sheet Accessories

Installation temperature 5° to 35° C (observe tile adhesive specifications) Tube joint tapes

Storage temperature max. 45°C (store max. 2 pallets on top of each other)

Softening temperature 120°C

Water vapour resistance 160 m equivalent air layer

Please note: For technical reasons, tolerances in color effects of the materials and print are possible. All information is based on the best of our knowledge and belief. No guarantee can be derived from this. We reserve the right to any technical changes if they are in the interest of progress or if they are production-related.



Filling volume of the studs 1.2 litres/m<sup>2</sup>  
Distance between studs approx. 21 mm ± 10%  
High adhesive tensile strength (average value) 0.4 N/mm<sup>2</sup>  
Crack bridging 0.83 mm (with an applied force of 7 kN)  
Point load on centre of tile: 11317 N (at a distance of 0.57 mm)  
Max. deflection (clear width 660 mm) Concave: 12.3 mm (applied force 11.41 kN)  
Convex: 3.3 mm (applied force 2.4 kN)  
Results of dynamic tests (clear width 660 mm) 400,000 cycles at 1.8 mm without damage  
Minimum screed thickness according to DIN (deviations only with DURAL approval)  
Mat installation from when screed is walkable  
Suitable for underfloor heating  
Certificates  
Test report no. 2.1/13821/1055.01-2022 - KIWA GmbH  
Technical approval 13/16-1317\_V2  
Shelf life: 2 years in a dry environment; avoid direct contact with sunlight and heat sources

## PROPERTIES

Installation temperature 5° to 35° C (observe tile adhesive specifications)  
Storage temperature max. 45°C (store max. 2 pallets on top of each other)  
Softening temperature 120°C  
Water vapour resistance 160 m equivalent air layer  
Filling volume of the studs 1.2 litres/m<sup>2</sup>  
Distance between studs approx. 21 mm ± 10%  
High adhesive tensile strength (average value) 0.4 N/mm<sup>2</sup>  
Crack bridging 0.83 mm (with an applied force of 7 kN)  
Point load on centre of tile: 11317 N (at a distance of 0.57 mm)  
Max. deflection (clear width 660 mm) Concave: 12.3 mm (applied force 11.41 kN)  
Convex: 3.3 mm (applied force 2.4 kN)  
Results of dynamic tests (clear width 660 mm) 400,000 cycles at 1.8 mm without damage  
Minimum screed thickness according to DIN (deviations only with DURAL approval)  
Mat installation from when screed is walkable  
Suitable for underfloor heating  
Certificates  
Test report no. 2.1/13821/1055.01-2022 - KIWA GmbH  
Technical approval 13/16-1317\_V2  
Shelf life: 2 years in a dry environment; avoid direct contact with sunlight and heat sources

## MATERIAL

Polyethylene (PE)

## PROCESSING

The substrate must be load-bearing and level. Levelling measures must be taken before installing CI++.

Please note: For technical reasons, tolerances in color effects of the materials and print are possible.  
All information is based on the best of our knowledge and belief. No guarantee can be derived from this.  
We reserve the right to any technical changes if they are in the interest of progress or if they are production-related.



1. Cut the DURABASE CI++ strips to size. Make sure that the mat is laid edge to edge and that there is a free edge joint all around (formed with a 10 mm joint).

1. Cut the DURABASE CI++ strips to size. Make sure that the mat is laid edge to edge and that there is a free edge joint (formed with an edge insulation strip) of at least 5 - 10 mm all around.

2. Prime the prepared substrate accordingly.

Apply suitable tile adhesive to the substrate using a 4 x 4 mm or 6 x 6 mm notched trowel.

3. 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. It is not possible to lay the mat loosely.

Then carefully fill the studs at the mat joints with tile adhesive, apply a notched trowel and fix the mat joints with DURABASE tube joint tape.

4. After the drying time, apply tile adhesive with a notched trowel suitable for the tile size and lay the tiles professionally using the buttering-floating method. There must be no tile adhesive in the edge and connection joints!

NOTE: The generally accepted rules of technology must be observed. Suitability with regard to mechanical and chemical resistance must always be checked in individual cases.

NOTE: The generally accepted rules of technology and tiling must be observed. Suitability for use with mechanical and chemical resistance must always be checked in each individual case.

Please note: For technical reasons, tolerances in color effects of the materials and print are possible.  
All information is based on the best of our knowledge and belief. No guarantee can be derived from this.  
We reserve the right to any technical changes if they are in the interest of progress or if they are production-related.