



TYCROC TWP

CUTTING, STORAGE AND SURFACE

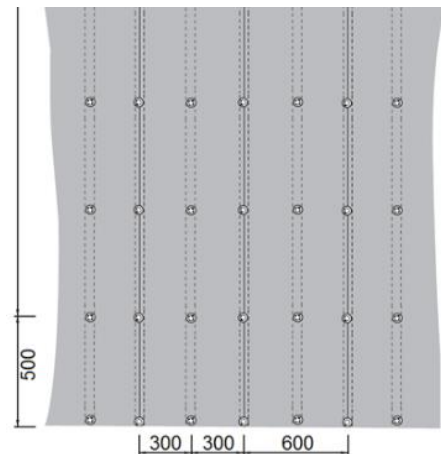
It is easy to cut the Tycroc TWP building board with electrical circular saw, keyhole saw, handsaw or cut-off blades. For drilling of holes, rock, metal and wood drills are suitable. There are no special requirements to storage, but it is not recommended to store the material edgewise to avoid possible damages, also not diagonally (broken corners, etc.)

For the installation of Tycroc TWP building board, the surface must be dry, inflexible and stable. Also, it must be clean of dirt, oil and other lubricants and not frozen.

1. INSTALLATION TO WOODEN AND METAL FRAMEWORKS (from board with thickness of 12 mm)

Tycroc TWP building board is suitable for installation on both wooden and metal frameworks. For building board with 600 mm width, the carcass should be constructed with a gap of 300 mm and for building board with 1200 mm width, the carcass should be constructed with a gap of 400 mm. Screws distance max 500 mm.

From board with thickness of 50 mm it is enough stiff to install it without framework by using fixings only edges.



RATE OF CONSUMPTION

Tycroc screws and washers:

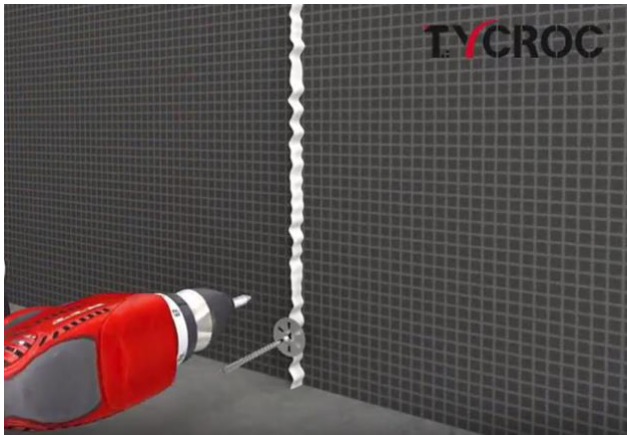
- for 600 mm wide board – 15 pcs / 10 pcs per sqm
- for 1200 mm wide board – 20 pcs / 7 pcs per sqm

Tycroc Premium FIX adhesive sealant:

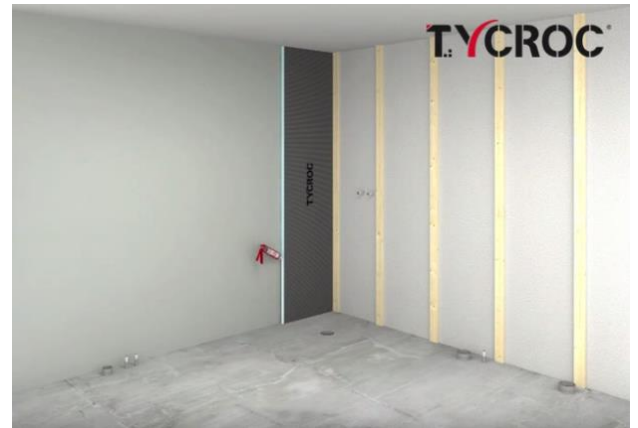
- for 600 mm wide board – 1 x 290 ml cartridge ca 3 sqm / for 2 full boards
or 1 x 600 ml cartridge ca 6 sqm / for 4 full boards
- for 1200 mm wide board – 1 x 290 ml cartridge ca 4,5 sqm / for 1 ½ full boards
or 1 x 600 ml cartridge ca 9 sqm / for 3 full boards

(one 290 ml cartridge = ca 8-10 lm of adhesive sealant)
(one 600 ml cartridge = ca 16-20 lm of adhesive sealant)

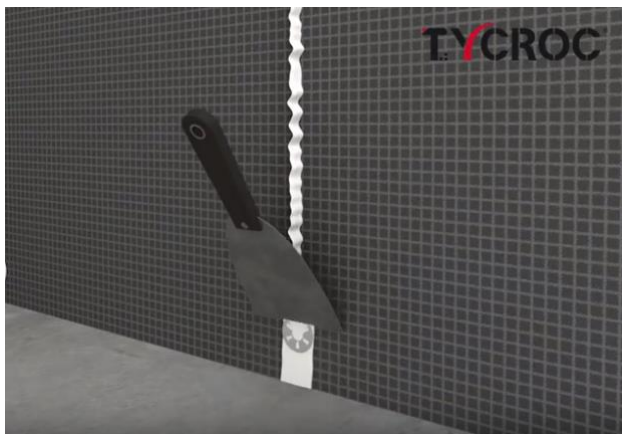
INSTALLATION INSTRUCTIONS



For fastening of building board use Tycroc screws M4x35mm or M4x55 mm and Tycroc metal washers 36x0,6 mm should be used. Use screws that enter the underlying surface by at least 20 mm.



Before mounting the next board, Tycroc Premium FIX adhesive sealant should be applied to the edge of the previous board to glue the building boards to each other.



The gaps between building boards and corners should be covered with adhesive sealant, and also fastening washers should be covered with the help of a spittle.



Direct water contacted corners, cover additionally with waterproofing tape and -membrane.



The surface is immediately ready for tiling or another type of finishing.

INSTALLATION INSTRUCTIONS

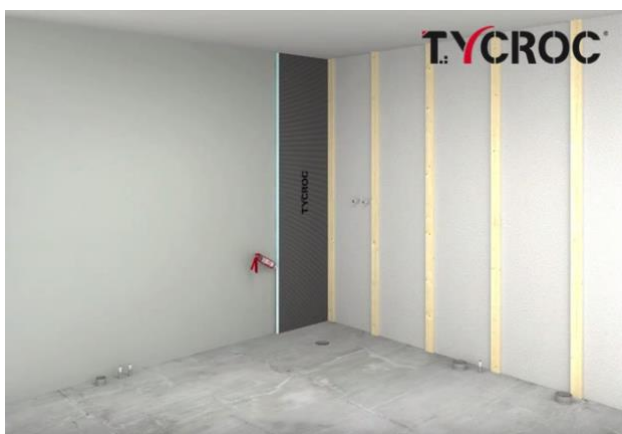
2. INSTALLATION ON A SURFACE BY GLUEING (from board with thickness of 6 mm)



Apply primer component to the wall.



Apply the tiling compound evenly on the whole surface of the Tycroc TWP building board. Press the board against the wall and level.



Before mounting the next board, Tycroc Premium FIX adhesive sealant should be applied to the edge of the previous board to glue the building boards to each other.



The gaps between building boards and corners should be covered with adhesive sealant, and also fastening washers should be covered with the help of a spittle. Direct water contacted corners, cover additionally with waterproofing tape and –membrane.



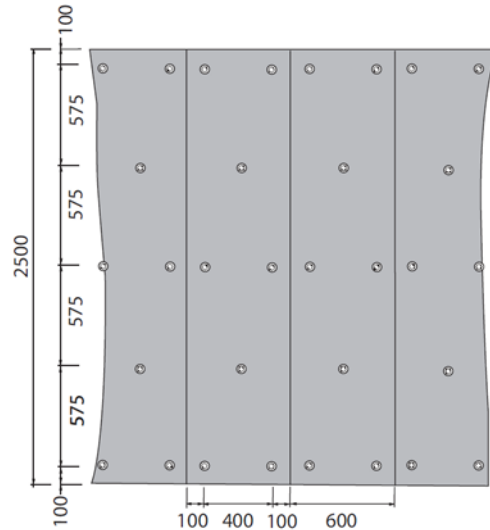
The surface is immediately ready for tiling or another type of finishing.

3. INSTALLING ON A SURFACE USING METAL DOWELS (from board with thickness of 20 mm)

Using a screw driver make holes through the building board to mark the places for fastenings. Make sure that the fastening places closest to edges are at least 100 mm away from the edge of the building board. One board with dimensions 2500 x 600 mm should have 8 fastening points (holes) / at least 5 fastening points per square meter.

Place dabs on each fastening place (hole), put the building board against the wall, press and level.

Let the dabs curdle a little and then, according to previously marked fastening places (holes) drill holes through the building board and the dab into the wall. Then, according to the drilled holes, strike metal dowels into the wall to ensure that the building board stays on the wall. Before mounting the next board, Tycroc Premium FIX adhesive sealant should be applied to the edge of the previous board to glue the building boards to each other.



RATE OF CONSUMPTION

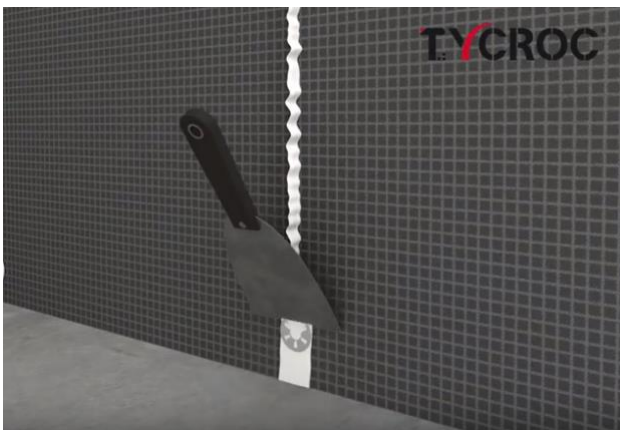
Tycroc dowels

- for board 2500x600 mm = at least 8 pcs / at least 5 pcs per sqm

Tycroc Premium FIX adhesive sealant

- for 2500x600 mm board – 1 x 290 ml cartridge ca 3 sqm / for 2 full boards or 1 x 600 ml cartridge ca 6 sqm / for 4 full boards

(one 290 ml cartridge = ca 8-10 lm of adhesive sealant)
 (one 600 ml cartridge = ca 16-20 lm of adhesive sealant)



The gaps between building boards and corners should be covered with adhesive sealant, and also fastening dowels should be covered with Tycroc Premium FIX adhesive. Direct water contacted corners, cover additionally with waterproofing tape and –membrane.



The surface is immediately ready for tiling or another type of finishing.

INSTALLATION INSTRUCTIONS

4. INSTALLATION ON CONCRETE FLOOR (from board with thickness of 6 mm)

4.1 The floor must be clean of dirt and excessive debris.

4.2 A) Apply Tycroc Fast FIX acrylic adhesive to the bottom side of the building board.

B) Apply fixing compound suitable for wooden surface both to the floor and the bottom surface of the building board. For better adhesion we recommend to prime the floor surface first with suitable primer.



4.3 Place the Tycroc TWP building board on the floor and press it strongly against the surface either by body weight or using additional weight (e.g. a bag of concrete, etc.). Before mounting the next board, Tycroc Premium FIX adhesive sealant should be applied to the edge of the previous board to glue the building boards to each other.

Recommendation! If an additional 5-6 Tycroc metal dowels are used for each board, no additional weight needs to be used while the adhesive dries and the installation process is faster.

4.4 The gaps between building boards and corners should be covered with adhesive sealant with the help of a spatula. Direct water contacted corners, cover additionally with waterproofing tape and –membrane.

4.5 The surface is immediately ready for tiling or another type of finishing. It is allowed to use heating cables directly on the TWP boards.

5. INSTALLATION ON WOODEN FLOOR (from board with thickness of 6 mm)

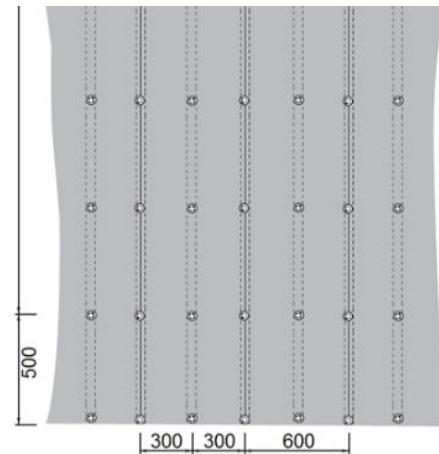
5.1 Before the installation of Tycroc TWP building board make sure that the wooden surface is attached in stable manner and according to future loads. The surface must be clean of dirt and excessive debris.

5.2 A) Apply Tycroc Fast FIX acrylic adhesive to the bottom side of the building board.

B) Apply fixing compound suitable for wooden surface both to the floor and the bottom surface of the building board. For better adhesion we recommend to prime the floor surface first with suitable primer.

C) Using beams max distance 300 mm it is possible to use boards with thickness from 50 mm directly on the beams.

INSTALLATION INSTRUCTIONS



A) / B) Place building board on the floor and press it strongly against the surface, fixing the building board with suitable screws and metal washers 36x0,6 mm. Use screws that enter the underlying surface by at least 20 mm.

Recommendation! If you use an additional 5-6 Tycroc fastening screws and washers for each board, you do not need to use additional weight while the adhesive dries and the installation process is faster.

Before mounting the next board, Tycroc Premium FIX adhesive sealant should be applied to the edge of the previous board to glue the building boards to each other.

C) Place building board on the floor and press it strongly against the surface, fixing the building board with suitable screws and metal washers 36x0,6 mm. Use screws that enter the underlying surface by at least 20 mm.

Before mounting the next board, Tycroc Premium FIX adhesive sealant should be applied to the edge of the previous board to glue the building boards to each other.



The surface is immediately ready for tiling or another type of finishing. It is allowed to use heating cables directly on the TWP boards.



TYCROC FAST FIX ACRYLIC ADHESIVE APPLICATION INSTRUCTIONS

Application conditions

Usage temperature between +18 °C and +25 °C. Relative humidity in the room should not exceed 65%. Prior to gluing, the adhesive and the material to be glued should achieve the same temperature as the floor (+18 °C to +25 °C). Relative

humidity of the substrate should be 85–90% RH at the maximum, depending on the material. Protect from moisture, if needed. Concrete floors and floors made from a levelling compound are recommended to be primed. When installing floor or wall coverings, instructions by the manufacturer should always be followed. With regard to floor heating, the precautions according to the manufacturer of the flooring should always be followed.

Application instruction

Preparation: The substrate should be ready for installation, i.e. strong, clean, dry, and free of oil, dust and fat. Usage conditions should be checked in accordance with effective construction requirements and DIN 18356. Grind cement, concrete and self-levelling substrates and uneven, older and unstable substrates, until a strong, adherent surface is achieved. After grinding, remove dust from the floor.

Application: Prior to application, the adhesive should be well stirred. Apply the adhesive to the substrate, by using a trowel. Do not use more adhesive than is needed for gluing the flooring. Install the flooring immediately or after a short waiting period. Spread the adhesive well in order to remove excess air and ensure a good contact between the adhesive and the flooring. Best results are achieved by using a flooring roller. Make sure that the whole flooring surface has a good contact with the adhesive.

Wet gluing: Apply the adhesive by using a trowel. Place the material to be glued on a wet adhesive. The latest time for wet gluing is up to 20 minutes after applying adhesive to the substrate. The glued material should be well rubbed by using a suitable tool.

Double-sided gluing: Apply the glue with a trowel. Place the material to be glued on a wet adhesive, separate the surfaces and let the adhesive dry for 5–10 minutes before connecting the glued surfaces again. When using double-sided contact gluing, it is very important that the cover is pressed strongly against the surface. In wet rooms, all joints of the flooring should be sealed.

RATE OF CONSUMPTION

Tycroc screws and washers

- Wooden floor: 12 pcs per 2500x600 mm or 2500x1200 mm board
- On the beams = 18 pcs per 2500x600 mm board or 30 pcs per 2500x1200 mm board

Tycroc Premium FIX adhesive sealant:

- for 600 mm wide board – 1 x 290 ml cartridge ca 3 sqm / for 2 full boards or 1 x 600 ml cartridge ca 6 sqm / for 4 full boards
- for 1200 mm wide board – 1 x 290 ml cartridge ca 4,5 sqm / for 1 ½ full boards or 1 x 600 ml cartridge ca 9 sqm / for 3 full boards

(one 290 ml cartridge = ca 8-10 lm of adhesive sealant / one 600 ml cartridge = ca 16-20 lm of adhesive sealant)

Tycroc FastFIX acrylic adhesive

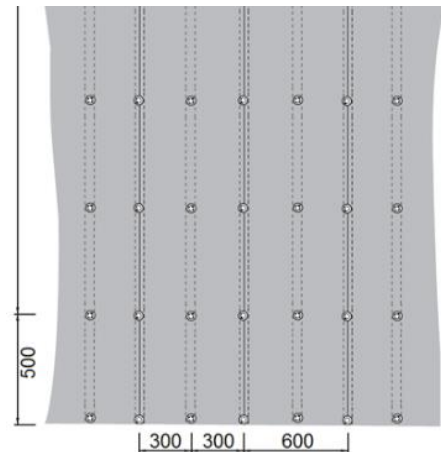
- ca 0,6 kg per sqm - that is one 15 kg bucket per ca 25 sqm.

6. INSTALLATION ON SUSPENDING CEILING (from board with thickness of 12mm)

Tycroc TWP building board is suitable for installation on both wooden and metal frameworks. For building board with 600mm width, the carcass should be constructed with a gap of 300mm and for building board with 1200mm width, the carcass should be constructed with a gap of 400mm. Screws distance max 500mm.

Bound Tycroc TWP building board to the ceiling suspension system by using Tycroc Premium FIX adhesive sealant. Then add Tycroc screws M4x35mm or M4x55mm. Use screws that enter the underlying surface by at least 20 mm. No need to use Tycroc metal washers 36x0,6mm under the screws because of the light weight of the building boards. Before mounting the next board, Tycroc Premium FIX adhesive sealant should be applied to the edge of the previous board to glue the building boards to each other. Also screws should be covered with the Tycroc Premium FIX adhesive sealant.

The surface is immediately ready for tiling or another type of finishing.



RATE OF CONSUMPTION

Tycroc screws M4x35 mm or M4x55 mm:

- for 600 mm wide board – 15 pcs / 10 pcs per sqm
- for 1200 mm wide board – 20 pcs / 7 pcs per sqm

Tycroc Premium FIX adhesive sealant:

- for 600 mm wide board – 1 x 290 ml cartridge ca 3 sqm / for 2 full boards
or 1 x 600 ml cartridge ca 6 sqm / for 4 full boards
- for 1200 mm wide board – 1 x 290 ml cartridge ca 4,5 sqm / for 1 ½ full boards
or 1 x 600 ml cartridge ca 9 sqm / for 3 full boards

(one 290 ml cartridge = ca 8-10 lm of adhesive sealant)
(one 600 ml cartridge = ca 16-20 lm of adhesive sealant)

7. INSTALLATION ON SURFACE CEILING BY GLUEING (from board with thickness of 6 mm)

Accordingly the topic 2.

INSTALLATION INSTRUCTIONS

We have tested Tycroc building boards and next Ceresit products:



Primers, additives	Ceresit CN 94 or Ceresit R 766
Levelling screed and compounds	Ceresit CN 75 or Ceresit CN 76
Waterproofings	Ceresit CL 50 or Ceresit 51
Adhesives	Ceresit CM 17, CM 29, CM 49, CM 90

We have tested Tycroc building boards and next Kiilto products:



Fixing TWP boards on construction board subfloor	Kiilto HighFlex S2 DF
Fixing TWP boards on cement-based wall and floor substrates and for tiling on boards	Ultra FIX or FlexFIX or FloorFIX DF or Kerapid DF
Primering and membranes on TWP boards:	
▪ primers	Fibergum primer or Keraprimer undiluted
▪ membranes	Kiilto Fibergum or Kiilto Keramix A+X or Kiilto Kerasafe+ or Kiilto XPU + Kiilto Fibergum


We have tested Tycroc building boards and next Weber products:



Primers, additives	Weber.Vetonit Floor 4716
Levelling screed and compounds	Weber.Vetonit Floor 4350 dB-plaano or Weber.Vetonit TT
Waterproofings	Weber.Vetonit WP
Adhesives	Weber.Vetonit RF

TYCROC and ESSVE recommends:



<p>For fastening inside Tycroc building boards use ESSVE SAM drywall anchor</p> 	<ul style="list-style-type: none">▪ max 15 kg per anchor▪ tested with Tycroc TWP 12mm and 20mm building boards and accordingly ESSVE SAM 5E and 6D.
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ATTENTION! All instructions above includes general information for different product use. Priority is producers installation instructions. If there are variations, then install the materials in compliance with the producers installation instruction.