

Kiilto Kerafiber waterproofing membrane

1-component • Fiber reinforce • Easy to use



Fields of use:

Kiilto Kerafiber is a complete under tile waterproofing system for floors and walls in wet room areas. Kiilto Kerafiber is not recommended for areas constantly under water pressure, such as swimming pools. Thermal resistance of the dry Kerafiber coat is max + 60 °C (important when installing wood heated stoves). Kiilto Kerafiber is compatible with Kiilto Keramix waterproofing system; for example use Kiilto Kerafiber for walls and Kiilto Keramix for floors.

Substrates:

Suitable substrates for Kiilto Kerafiber are concrete or cement screeds and wet room construction boards. The surface must be corresponding to a wood floated surface: remove previous coatings, cement adhesive, dust and other substances that might reduce the adhesion. The relative humidity of concrete substrates must be 90 %RH or less. Ground construction must have a barrier to prevent the rising damp. Uneven surfaces are sanded and/or smoothed with cement based Kiilto levellings. When installing floor heating in renovated area, use Kiilto Lattialämmitystasoite for covering the cables and for doing the falls. Floor heating systems must always be assembled under the membrane in accordance with the supplier's instructions. Before levelling work the surfaces are treated with primer according to the instructions. **Make sure that the substrate is suitable for waterproofing and tiling.**

Reinforcements:

Corners, inlets, construction board junctions, screw heads and other similar areas are reinforced with Kiilto Nurkkavahvikenauha (corner width 10 cm or 20 cm or junctions 10 cm). The tapes must overlap min. 30 mm. In wall/floor junctions, the tape is folded at least 5 cm on the wall. Pre-made Kiilto corners or reinforcing sheets can be used in internal and external corners and pipe inlets (50 mm and 110 mm). The floor drain reinforcement is made by two square reinforcement sheets (30 x 30 cm), which are placed crosswise onto each other. The floor drain can also be reinforced with a self-adhesive Kiilto Kaivolaippa reinforcing sheet. The tension ring recommended by the supplier is applied to the hole and the ring/drain joint is sealed with Masa Liimamassa.

Primers for Kiilto Kerafiber

Substrate	Primer
Concrete or cement plaster	Kiilto Keraprimer diluted 1:1 with water
Plaster board	No priming necessary
Other construction boards	Kiilto Keraprimer undiluted
Old ceramic tiles or paint	Kiilto Saneerauslaasti + Kiilto Keraprimer diluted 1:1 with water
Harsh concrete or masonries	Smoothing with cement based levellings and plasters Walls: Kiilto SK, Kiilto TT or Kiilto TM Floors: Kiilto 97, Kiilto 77 or Kiilto Lattialämmitystasoite and Kiilto Tasoflex, Easyrapid or Maxirapid



All reinforcements are always rubbed into fresh Kerafiber by a paint roller, a brush or a plastic applicator. Kerafiber is applied also over the reinforcements to make sure they are wetted. The self-adhesive Kiilto Kaivolaippa is pressed onto a primed surface. The compatibility of Kiilto Kerafiber with most of the floor drains on the Nordic market has been tested and approved. The compatibility can be checked from our technical service or from the floor drain supplier.

Amount required:

Walls, two coats on the entire area: ca 0.6 l/m². (overall thickness of the dry membrane coat 0.4 mm)

Floors, two coats on the entire area: ca 0.8 l/m². (overall thickness of the dry membrane coat 0.5 mm)

Working conditions:

Room and surface temperature during the application must be +15...+25 °C. The conditions should be stable to avoid material transformations caused by humidity and temperature variations. Floor heating must be switched off 2 days before starting the job. The heating is started gradually a week after the job is completed. The drying of Kerafiber can be speeded up by efficient ventilation, but not with extra heaters.

Recommended accessories:

Paint roller, brush, plastic applicator and flooring knife. Tools and fresh stains wash with water. Dried stains can only be removed mechanically.

- Any loose material and foreign parts are removed from the surface.
- Cement adhesive and other materials that might reduce the adhesion are removed from the surface.
- The substrate must be clean and dustless before priming.
- When mixing Kiilto Saneerauslaasti, use the amount of water recommended by the manufacturer and apply Keraprimer only on dried Saneerauslaasti.

**FOR FURTHER TECHNICAL ASSISTANCE PLEASE CALL
KIILTO TECHNICAL SERVICE DEPARTMENT, 0207 710 100.**

Procedure Guide Kerafiber

Waterproofing System for Tiled Wet Room Areas



Walls

Uneven surfaces are sanded and/or smoothed with wallplaster: Kiilto SK, Kiilto TT or Kiilto TM.



1. Apply Kiilto Keraprimmer on a dry, dustless surface. Dilute Kiilto Keraprimmer 1:1 with water. Let dry for at least 1 hour before water-proofing.



2. Stir Kiilto Kerafiber always before use. Use Kiilto Nurkkavahvikenauha at corners, junctions and over screw heads. Rub it in fresh Kerafiber. Brush Kerafiber over the tape to make sure it is thoroughly wetted.



3. With pipe inlets you can use pre-made Kiilto reinforcing patches or fabricate them from Kiilto Nurkkavahvikenauha (cut your own hole). Press the patch in fresh Kerafiber and brush Kerafiber over it to ensure it is wetted.



4. Apply the first coat of Kerafiber on the entire wall area. Let dry for at least 2 hours before applying the second coat (Kerafiber darkens while curing - the colour indicator).



5. Apply the second coat of Kerafiber and let dry for 6 - 12 hours before tiling (the colour indicator). Check the thickness of the coat and apply Kerafiber on thin or porous spots. Let dry well. Amount Kerafiber required min. 0,6 l/m² and min. coat thickness 0,4 mm.



6. Start tiling from the second lowest row of tiles, at least 10 cm from the floor. Fix the tiles on the wall with Kiilto Superfix, Kiilto Saneerauslaasti, Kiilto Remonttilaasti or Kerapid Pikasaneerauslaasti.

Floors

Uneven surfaces are sanded and/or smoothed with Kiilto Lattialämmitystasoite. Prime the floor with Kiilto Start Primer before smoothing. Follow the instructions.



1. Apply Kiilto Keraprimmer on a dry, dustless surface. Kiilto Keraprimmer is diluted 1:1 with water.



2. Use Kiilto Nurkkavahvikenauha at corners, junctions and over screw heads. Press and rub them in fresh Kerafiber and brush over with Kerafiber to make sure they are thoroughly wetted.



3a. The floor drain can be sealed with two, crosslaid Kiilto Lattiakaivo reinforcing sheets. Put one sheet on the floor and brush it with Kerafiber. Put the other one crosswise onto the first one and brush with Kerafiber as well.



3b. Apply Kerafiber around the floor drain (40 x 40 cm) and turn the double reinforcing sheet onto the drain. If the drain is supplied with a separate sealing sheet, ask the supplier or Kiilto technical service for fixing instructions.



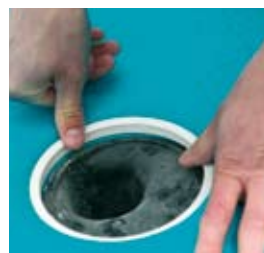
4. Apply a coat of Kerafiber on the entire area and let dry for at least 2 hours (Kerafiber darkens while curing - the colour indicator).



5. Apply a second coat of Kerafiber and let dry for 6 - 12 hours before tiling (the colour indicator). Check the thickness of the coat and apply Kerafiber on thin or porous spots. Let dry well. 0,8 l/m² of Kerafiber is required and min. coat thickness is 0,5 mm.



6. When dry cut a hole for the floor drain. Make sure that the diameter of the hole is at least 40 mm shorter than the diameter of the drain. This ensures that the brim of the hole reaches the seal of the floor drain (see the supplier's instructions). The Kerafiber coat must be at least 1,5 mm thick around the drain.



7. Press a compatible tension ring carefully to the floor drain. Cut off any excessive membrane coming out under the tension ring.



8. The floor drain can be sealed also with a self-adherent reinforcement sheet, Kiilto Kaivolaippa. Press it on dry, primed surface and rub on tightly. Cut a hole according to supplier's instructions and press on the tension ring.



9. Two sides of the Kaivolaippa sheet are reinforced with fabric. Brush them with Kerafiber. Then press Kiilto reinforcing tape on the two other sides, overlapping at least 30 mm over the sheet.



10. Brush Kerafiber over the entire floor area, up to the tension ring.



11. Seal tension ring/drain junction with Masa Liimamassa. The compatibility of the Kiilto Kaivolaippa with most of the floor drains on the Nordic market has been tested and approved.



12. Fix the tiles on the floor with Kiilto Superfix, Kiilto Saneerauslaasti, Kiilto Remonttilaasti or Kerapid Pikasaneerauslaasti.



13. Float Kiilto Saumalaasti into the joints. Wait for 15-30 minutes and wash the excess grout off the surface of the tile with a sponge. Wring the sponge well - excess water can discolour the joints. The joints can be smoothed with a thick electric wire.



14. Wipe away excess grout from the corners and seam the corners and inlets with Kiilto Saniteettisilikoni. Leave the new bathroom for about 24 hours before using. Floor heating can be started gradually after a week from the joint sealing.

Interior



- Wall plasters: Kiilto SK, Kiilto TT, Kiilto TM
- Primer for floor levelling: Kiilto Start Primer
- Floor screed: Kiilto 60
- Floor levelling compounds: Kiilto 77, Kiilto 97, Kiilto Lattialämmitystasoite
- Primer for waterproofing: Kiilto Keraprimmer
- Waterproofing membrane: Kiilto Kerafiber
- Tile adhesives: Kiilto Saneerauslaasti, Kiilto Superfix, Kiilto Kerapid
- Joint mortars and sealants: Kiilto Saumalaasti, Kiilto Saniteettisilikoni

