



# KIILTO SUPERFIX DF

## Cementitious adhesive

### AREA OF APPLICATION

Kiilto Superfix DF is a non-sagging and economical flexible cementitious adhesive with lightweight filler for laying of ceramic tiles, clinker and stones that are not moisture sensitive on PVC, tile, clinker, painted and common aggregate surfaces as well as surfaces treated with Kiilto waterproofing membranes or moisture barrier, e.g. gypsum board. Tiling can be done without a joint string. Suitable for in- and outdoor applications, but not on surfaces which are constantly under water (e.g. pools).

### SUBSTRETE

The surface to be tiled must be clean and free from dust. Remove any watersoluble smoothing and levelling compounds. Moisten dry and absorbent surfaces (excluding board surfaces). Switch off underfloor heating approx. 24 hours before tiling. With PVC, paint, tile and clinker surfaces, ensure that:

- the coating is sound
- the coating is tightly fixed onto its substrate
- wax, grease and other dirt are removed with Kiilto Maalarinpesu and is rinsed well. Let dry and sand the surface with sandpaper. Remove the sanding dust carefully.

### PROPERTIES

- reduced amount of dust during mixing due to dust-free technology
- complies with M1-emission class requirements for building materials
- complies with EN 12004 standard requirements, class C2TES1.
- by using additive according to Kiilto Fixbinder -guide, you can improve Kiilto Superfix DF's deformation properties (CE-label C2ES2).
- light colour
- non-sagging
- long working time
- moisture resistant
- frost resistant
- suitable for fixing tile on tile and PVC-surfaces
- suitable for smoothing minor irregularities on the surface before tiling
- NOTE! For smoothing deeper surface irregularities, use Kiilto wall plasters and floor screeds.
- not recommended for areas that are immersed with water (e.g. swimming pools)

### RECOMMENDED WORKING CONDITIONS

Temperature of room and subsurface +18 ... +20°C  
Moisture of subsurface - concrete < 90% RH  
The temperature of subsurface, cementitious adhesive and tiles must be over + 5 °C during tiling.

### INSTRUCTIONS FOR USE

Strew Superfix DF powder gradually to cool, clean water by stirring until a smooth plastic mix is formed. Let the mixture mature for 10 - 15 minutes and stir once more properly. Apply mixture onto the surface by pressing firmly. Comb it with a serrated trowel over an area that can be tiled within 15 - 20 minutes. Press the tiles firmly onto the fresh adhesive and tap them properly into their position. Position can be adjusted for 15 minutes, if needed. To ensure proper adhesion, the back of the tile should be covered with the cementitious adhesive almost entirely (with tiles 70% and clinker 100%). Therefore the notching of the trowel must always be chosen according to the tile size and substrate material.

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Remove fresh stains with water and a damp sponge. Dried adhesive can only be removed mechanically.

Grouting with Kiilto Saumalaasti (joint mortar) can be carried out 12 hours after tiling on walls, after 24 hours on floors. Final strength is achieved after 1 week. Low temperature and high humidity retard drying and setting.

Corners, wall-floor joints and other movement joints are sealed with Kiilto Sanitarysilicone.

## TECHNICAL DATA

Type	polymer-white cement-lightweightfiller-quartzsand-based powder
Max. particle size	0.5 mm
Mixing ratio	5.5 l water/ 15 kg powder (walls) 6.5 l water / 15 kg powder (floors)
Consumption	approx. 2.2 kg/m <sup>2</sup> with standard notched trowel (notch size: width 6 mm, gap 6 mm and height 6 mm). Approx. 1.5 kg/m <sup>2</sup> when applied using a mosaic trowel (notch size: width 4 mm, gap 4 mm and height 4 mm).
Bond strength:	
Initial bond (28 days)	≥ 1.0 MPa (EN 1348)
Bond after water immersion	≥ 1.0 MPa (EN 1348)
Bond after heat ageing	≥ 1.0 MPa (EN 1348)
Bond after freeze-thaw test	≥ 1.0 MPa (EN 1348)
Open time / 20 min	≥ 0.5 MPa (EN 1346)
Open time / 30 min	≥ 0.5 MPa (EN 1346)
Slip	≤ 0.5 mm (EN 1308)
Deformation	≥ 2.5 (EN 12002)
Deformation with Fixbinder additive	≥ 5,0 mm (EN 12002)
Reaction to fire	E
Working time	approx. 3 hours after adding water
Jointing of walls	approx. 12 hours after tiling
Jointing of floor	approx. 24 hours after tiling
Package size	4 kg plastic pail, 15 kg bag
Storing	Shelf-life approx. 12 months in an unopened bag in a dry place.

## HEALTH AND SAFETY

Fresh product is alkaline and causes irritation to skin and mucous membranes. Avoid skin contact. Dust mask is recommended during mixing. A separate MSDS is available upon request.

## FURTHER INFORMATION

The above mentioned recommendations are based on our own research and the best knowledge available. The local working conditions and methods may vary, however, and these are beyond our control. Therefore we cannot be held responsible for the actual work on site.

If you have any problems, please contact our technical service, tel. +358 (0)207 710 100 or <http://www.kiilto.com>.