

KIILTO PRO VGS

Levelling compound for floors with floor heating (3-50 mm)

- AREA OF APPLICATION** Cement based levelling compound containing reinforcing fibres to be used for floors with floor heating. Suitable also for weak renovation subfloors before laying the floor covering.
- SUBFLOOR**
- The subfloor must be clean, firm and strong. Remove the so-called cement skin and paint splashings, and brush or vacuum the subfloor thoroughly. On floor heating floors must pay attention for condition of subfloor so that will resist the stresses to be caused by heatmovements.
1. Concrete subfloors shall be primed with Kiilto Otto Primer thinned with water (10-20% of primer, 80-90% of water) before levelling. On floor heating floors the subfloor must be sanded to get rough surface to confirm satisfactory adhesion. Good bonding can be confirmed also by applying a bondlayer for example with Kiilto Saneerauslaattalaasti using serrated trowel and recommended amounts of water (note: here no primer is used).
2. Nonabsorbent subfloors without floor heating shall be primed with Tatu Primer before levelling. On small floor heating floors (under 10 m²) the bondlayer shall be applied for example with Kiilto Saneerauslaattalaasti using serrated trowel and recommended amounts of water (note: here no primer is used). For larger areas is it recommended to remove old floor covering and carry out levelling on clean and firm concrete floor.
3. Stable wooden and chipboardsubfloors without floor heating shall be primed with Tatu Primer before levelling. Regarding floor heating on wooden or chipboardsubfloors, it is recommended to install gypsum board before priming with undiluted Kiilto Otto Primer and levelling. Satisfactory bond between gypsum board and levelling compound can be ensured even by applying a bondlayer with Kiilto Saneerauslaattalaasti (note right amount of water, no primer). Floor heating pipes / electric cables will be installed according to instructions of the supplier of the heating system on the dried primer / bondlayer. Levelling can be done after that.
- PROPERTIES**
- * working time appr. 30 min.
 - * contains fibres that will reduce the risks for cracks.
 - * contains polymers that will give better elasticity and bond.
 - * walkable after 4 hours.
 - * flooring can be laid after 1-5 days depending on the thickness of the layer at normal room temperature.
 - * adheres to concrete, wood and various construction plates (Note the correct priming).
 - * good levelling properties
 - * practically non-shrinking
 - * moisture resistant
 - * lowest application temperature +10°C
 - * casein-free

TECHNICAL DATA	Type	fibre-polymer-special cement-quartz-based powder	
	Max. particle size	about 1 mm	
	Thickness of levelling	3-50 mm	
CONSUMPTION	1 mm coating /m ² of solid matter weighs approx. 1,7 kg		
MIXING RATIO	20 kg floor screed abt. 2,9 l water (slopes) abt. 3,2 l water (leveling)		
RECOMMENDED WORKING CONDITIONS	Temperature of room and subfloor	+18...+20°C	
	Subsurface moisture	-wood	8...12%
		-concrete	max.4% by weight or under 90 % RH

Levelling must be carried out at the normal use temperature of the room. The prevailing conditions, such as the temperature of the room, floor screed and water, the texture and moisture of the subsurface as well as relative air humidity considerably affect the setting and drying time. Our recommendations can therefore only be used as a guideline. The drying of the floor screed must not be quickened artificially for example with floor heating.

INSTRUCTIONS FOR USE Add the floor screed powder gradually to cool, clean water, stirring simultaneously until a smooth, plastic mix is formed. Let the mix settle for about 5 minutes, then stir once more thoroughly. Apply smooth screed using a wide steel trowel. During the levelling shall be ensured that the cables / pipes will be properly filled with floor screed so that floor will be heated uniformly and can be ensured good bond between floor screed and subfloor. The first layer must be dry before applying a new layer. The drying of the floor screed must not be quickened by heating or ventilating. Too fast drying may cause hair cracks. Surface temperature on floor heating floors should not exceed +28°C. On larger surfaces shall be paid attention for necessity of movement joints (Joints between walls and floors, in elongated spaces (relation between sides over 2:1) movement joints distance max. 5 meter, division of large areas to minor parts.

If the temperature in the treated room is higher than normal, the relative humidity very low, or if the levelled floor surface is exposed to direct sunlight, we recommend that the floor is covered with a tarpaulin as soon as it is dry enough to allow walking.

The floor should be covered relatively soon after the hardening and drying of the floor levelling. Thus the overdrying of the surface is avoided and the risk of the cracks and weak bond is eliminated.

Suitable also for floors in secondary, light loaded rooms that will be painted, but not for example under the paint of the floors of garages or bathrooms etc. For the rooms, where water isolation is used, floor levellings should be applied under the watertight membrane. For floor heating floors in dry spaces may even be applied watertight membrane between levelling compound and tiling to reduce stresses of clinkers caused by heat movements.

Not recommended for areas permanently under water (e.g. swimming pools).

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PACKING SIZE

20 kg bag

NOTE

Store in a dry place max. 1 year.

Avoid unnecessary contact with skin and mucous membranes.
Fresh levelling compound is alkaline and causes irritation.
The use of dust mask during mixing and sanding is recommended.

The above 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)3 280 8111 or <http://www.kiilto.com>.