

Torggler

LIVELLINA 5-30

Self-levelling screed for irregular surfaces, from 5 to 30 mm thickness, also for heated floors.



- Self-levelling
- High resistance
- Fast setting
- For indoor use
- Thickness from 5 to 30 mm



APPLICATION AREAS

Livellina 5-30 is for indoor use only. It is ideal

- as a self-levelling and quick-setting smoothing cement for preparing very irregular surfaces to be covered with carpets, parquet, lino, plastic, rubber, ceramic tiles or other types of flooring
- for levelling off concrete floor slabs, and cement screeds, also in case of heating floors. For levelling off floor slabs of incorrect height where floating beds cannot be made.

FEATURES

Livellina 5-30 is a grey, pre-mixed, self-levelling cement mortar based on a mixture of special, quick-setting cements, selected aggregates, synthetic resins and specific additives. After mixing with water, you have a smooth and fluid, self-levelling mix that does not separate out, is easy to apply in thicknesses of 5 mm to 30 mm using a trowel and adheres very well to the substrate. Once hardened, it has good mechanical strength, shock resistance and abrasion resistance and gives a smooth, dust-proof surface. It is totally free of fluidizers based on protein substances and on substances that develop formaldehyde and ammonia. The use of special polymers gives a very low volatile organic compound emission rate. Livellina 5-30 falls under class CT-C30-F7 according to EN 13813.

WARNINGS

- Do not apply the product at temperatures below +5 °C or above +30 °C.
- Do not mix the product with other binders such as cement, hydraulic lime, gypsum, etc.
- The mix cannot be diluted with water once it has started setting.
- Do not use the mixed product when it has already started to set. Therefore, always prepare quantities of mix which can be used within the pot life.
- Do not use the product outdoors or in places which are continuously subject to water or rising damp.
- Do not apply as floating bed.

INSTRUCTIONS FOR USE

Preparation

The surface to be treated must be clean and solid, without any dust, loose material or dirt of any kind. Remove all traces of oil and grease, as well as all traces of adhesives of previous floor coverings (carpets, PVC, parquet, etc.). Surfaces that are too smooth and not sufficiently absorbent should be roughened with a bush hammer or other suitable tool. For surfaces that are highly porous and too absorbent or for magnesia or anhydrite-based surfaces, pretreatment with Tile Primer is required. Wait for the primer to dry completely (that is, when the film applied becomes transparent).

Mixing the product

Mix Livellina 5-30 with approximately 18 – 20 % water (4,5 – 5,0 litres per 25 kg bag), if possible using a low speed drill with mixer attachment. Mix until smooth and free of lumps, with a fluid, selflevelling consistency. Do not exceed the recommended quantity of water. Mixing with more water does not improve the self-levelling properties but will reduce the surface strength of the product when hardened. Allow the mixture to stand for approximately 4 – 5 minutes, then mix again briefly. The mix prepared in this way has a pot life of 30 minutes under normal conditions (at +23 °C). Higher temperatures reduce the pot life, lower temperatures increase it.

Application

Wet the surface to be treated until it is saturated and let the excess water evaporate or remove it with a sponge. Make sure you remove all the surface water. Wetting is not necessary if the surface has been pre-treated with Tile Primer. Pour the mix on the surface to be treated and spread using a paddle. Apply a single coat not more than 30 mm thick. There's no need to level it mechanically. The mix forms an even surface by itself. To obtain a perfectly smooth surface and prevent the formation of air bubbles, pass a spiked roller over the entire surface. The spikes should be longer than the thickness of the coat applied. For application on large surfaces, follow the joints, if any, in the substrate or create new joints at intervals of not more than 5 metres. If the thickness required in certain parts of the substrate is greater than 30 mm (the thickness of the coat should not exceed 30 mm over large surfaces), fill the deeper areas with a first coat so as to bring the entire surface to be treated to a uniform level. As soon as the first coat is safe to walk on (after approximately 3 hours at 23 °C) apply a coat of Tile Primer in a quantity of 60 – 80 gr/m². Wait for the primer to dry completely (the film applied must become transparent), then apply a second coat of Livellina 5-30 over the entire surface to be treated, again in a maximum thickness of 30 mm. You may clean the tools with water before the mix sets. Otherwise, you must scrape them clean using suitable mechanical instruments.

WAITING TIMES

The time required for complete hardening depends on environmental temperature and humidity, the thickness of the coat applied, the amount of water used for mixing and the porosity of the substrate. Under normal conditions (+23 °C and 50 % r.h.) it must be allowed to harden for at least 12 hours before laying tiles and 2 to 3 days before applying adhesives for carpets, lino, rubber or plastic flooring and before laying resin or wooden flooring. If environmental conditions are unfavourable (low temperature and high relative humidity) and the coat applied is very thick, it may be necessary to wait several days before laying resin or wooden flooring. In these cases, always measure the residual humidity of the substrate using a carbide hygrometer. The residual humidity must be less than 2 %.

TECHNICAL SPECIFICATIONS

Colour	grey
Apparent density	1,2 kg/litre
Grain size	0 – 1,2 mm

% mixing water and required per 25kg bag	18 – 20 % (4,5 – 5,0 litres per 25 kg bag)
Mix density	2,1 kg/litre
Mix consistency	fluid and self-levelling
Mix pot life (at +23 °C)	approx. 30 minutes
Setting times (according to EN 196-3): Setting start Setting end	60 minutes 90 minutes
Hardening (at 23 °C and 50 % r.h.)	may be walked on after approx. 3 hours
Application temperature	from +5 °C to +30 °C
Bending strenght (according to EN 13892-2) -after 1 day -after 3 days -after 7 days -after 28 days	3,0 N/mm ² 4,0 N/mm ² 6,0 N/mm ² 8,0 N/mm ²
Compression strenght (according to EN 13892-2) -after 1 day -after 3 days -after 7 days -after 28 days	16,0 N/mm ² 22,0 N/mm ² 27,0 N/mm ² 35,0 N/mm ²
Adhesion by traction (according to EN 13892-8): -after 7 days -after 28 days	1,5 N/mm ² 2,0 N/mm ²
Modulus of elasticity after 28 days (according to MIT 90)*	10,000 N/mm ²
Consumption	18 kg/m ² per cm of thickness

* Torggler Internal Methods (MIT) are available on request

Packaging	bag
Pallet	50 bags
Color	Grey
Packaging size	25 kg

CONSUMPTION

The amount of Livellina 5-30 required is approximately 18 kg/m² per cm of thickness.

STORAGE

Store in a dry, covered place. Unopened in its original bags, the product can be stored for at least 6 months. KEEP DRY.

The information contained in this document is reported on the basis of our experience and knowledge; therefore, any recommendations and suggestions made are without any guarantee and must be verified before using the product by those who intend to use it, who assume all responsibility that may result from its use since the conditions of use are not under our direct control. In case of doubt, it is always advisable to make preliminary tests and/or ask for the intervention of our technicians. Torggler reserves the right to modify, replace and/or delete the items, as well as to change the product data in this document without prior notice; in this case the indications given here may no longer be valid. Always refer to the latest version of the data sheet, available at www.torggler.com. Version 21.06.2021.