

Torggler

FAST SCREED

Pre-mixed, fast setting and hardening cementitious mortar class CT C30 F6 according to EN 13813, for floating or adherent screeds. For internal and external use.



- Controlled shrinkage
- Can be applied by hand or using a mortar pump
- Rapid application, drying and development of mechanical resistances
- Easy to work with and can be walked on quickly
- Ideal for heating floor realizations



APPLICATION AREAS

- For creation of thin bonded screeds
- For creation of unbonded screeds
- For creation of heating screeds

TYPES OF SUBSTRATE

- New or old concrete slabs
- Light substrates and/or separating layers
- Pre-existing cement screeds
- Acoustic-thermal insulating systems, panels and barriers

TYPE OF MATERIAL TO BE LAID

- Ceramic
- Wood or parquet
- PVC, linoleum or carpets

MAXIMUM ATTAINABLE THICKNESSES

- From 25 to 40 mm for screeds bonded to the base
- From 40 to 80 mm for unbonded screeds
- From 50 to 80 mm for screeds floating on a layer of acoustic/thermal insulation
- \geq 40 mm above underfloor heating coils

Note: Fast Screed can be used in a thickness of up to 30 cm to fill cavities

FEATURES

Fast Screed is pre-mixed cementitious mortar consisting of hydraulic binders, additives and selected aggregates, featuring semi-rapid drying and setting, class CT C30 F6 rated according to EN 13813. Apply at a damp soil consistency and can be used for new constructions and for repair work, to make screeds to prepare, level and/or construct flooring inclinations before laying ceramic tiles and/or marble, natural stone and artificial stone, wood and parquets, PVC, linoleum, resin flooring, water-proofing system, etc.

WARNINGS

Do not use the product in the following cases:

- at temperatures lower than +5 °C or higher than +30 °C
- with less water than indicated because this would jeopardise the workability of the material and the quality of the surface; with more water to prevent shrinkage, cracks, impaired resistance and lengthening of setting times
- if the product has been mixed more than one hour before intended use
- if it has been mixed with other binders, aggregates and/or additives
- on insulating/separating systems not specifically designed for flooring and/or that may result in compressing and/or reducing the total thickness by over 3 mm

INSTRUCTIONS FOR USE

Preparation

The base must be dry with all dust and grime removed. An anchor grout must be applied to the base for thin bonded screeds (from 25 to 40 mm). This must be made using Fast Screed mixed to a fluid consistency with a combination of water and Neoplast Latex in a ratio of 1:1 which must then be applied in an even layer (approximately 2-3 mm thick) using a flat brush, a scrubbing brush or a trowel. To guarantee a perfect bond, freshly-mixed Fast Screed must be applied to freshly-applied grout. Alternatively, for flooring that will be subjected to high mechanical stress, use an anchoring base made from Epox Ripresa, an epoxy bi-component adhesive for monolithic construction joints, diluted in water at a 1:1 ratio. The anchoring layer made from Epox Ripresa evenly applied all over the surface is effective in terms of stopping vapour and creating a barrier from it. Before laying unbonded screeds, apply a sheet of polyethylene to separate them from the base. If rising damp is an issue, suitable damp-proof membranes/ sheets must be applied to create a vapour barrier. Such membranes must have a nominal Sd-value equal to or exceeding 1,500 m. Apply an approx. 1-cm thick separating strip along the perimeter and around any vertical elements on the flooring.

Mixing the product

Mix Fast Screed with a suitable quantity of water, approximately 6.5%, i.e. 1.6 litre for each 25 kg bag, using a suitable mixing pump, a concrete mixer, a planetary mixer and/or, if the quantity is small, by hand. The product must be used within one hour from mixing.

Application

Screed the floor at the desired height then apply the mixture, compacting it and, lastly, floating it to obtain the best surface finish. A galvanized metal mesh must be applied for particularly thin screeds and/or for screeds over pipe/cable runs or technical systems. As well as edge joints, it is advisable to perform some interruptions/joints to divide the screed into modules, each

of which is usually about 20/25 m² in size. Each module must never be larger than 40 m² and/or each side must not be longer than 8 metres. Torggler Chimica S.p.A. · Via Verande 1/A, 39012 Merano (BZ) Italia · Tel. +39 0473 282400 · Fax +39 0473 282501 · www.torggler.com · info@torggler.com

Cleaning

Before the product sets, the equipment used to apply the screed can be washed with water. Only mechanical cleaning will be effective after the product has set.

WAITING TIMES

After applying the screed, protect it from excessively high or low temperatures, from direct sunlight and/or moisture or rain for at least 24 hours. In the presence of underfloor heating, it can be turned on 72 hours (3 days) after having applied the screed and, according to the protocol, before laying the flooring. Under normal conditions (20°C and 65% R.H.), ceramic tiles can be laid after 48 hours (2 days) while the following other types of flooring can be laid after 96 hours (4 days): damp-proofing flooring; marble, natural and man-made stone tiles; wood and parquet; PVC and linoleum flooring; carpets, etc. Nevertheless, before laying any flooring, accurately assess the residual moisture in the screed with a carbide hygrometer.

TECHNICAL SPECIFICATIONS

Consistency	powder
Granulometry	0 – 4 mm
Mixing water	6,5 % i.e. approx. 1,6 litres per 25 kg bag
Application temperature	from +5 °C to +30 °C
Temperature of the base	from +5 °C to +25 °C
Yield of wet mortar	53 litres for 100 kg product
Consumption	approx. 18 kg/m ² /cm
Apparent density	1,800 kg/m ³
Density – after drying at 105°C	approx. 2,150 kg/m ³
Vapour permeability μ (EN 1015-19)	approx. 30
Heat conductivity $\lambda_{10,dry}$	1,4 W/m*K
Specific heat	approx. 1 kJ/kg*K
Specific heat capacity	approx. 2,070 kJ/m ³ *K
Compressive strength (1 day)	approx. 20 MPa
Compressive strength (4 days)	approx. 24 MPa
Compressive strength (28 days)	≥ 30 MPa
Flexural strength (28 days)	≥ 6 MPa
Surface bonding strength	≥ 1,5 MPa
Can be walked on after	1 day
Flooring can be laid after	approx. 2 days (6 cm) with flooring permeable to vapour
Flooring can be laid after	approx. 4 days (6 cm) with flooring impermeable to vapour
Can be heated after	approx. 3 days
Permissible residual moisture	< 3 % (for flooring permeable to vapour and all tiles) < 2 % (flooring impermeable to vapour such as PVC, parquet, etc.) < 1.8 % (screed with incorporated heating)
Reaction to fire (EN 13501-1)	A1 _{fl}
Screeds and materials for screeds (EN 13813)	CT-C30-F6

Packaging	bag
Color	Grey
Packaging size	25 kg
Pallet	54 bags

CONSUMPTION

About 18 kg/m² of product is required for a 1 cm thick screed.

STORAGE

Fast Screed must be stored in a dry, protected place. Unopened in its original bags, the product can be stored for at least 6 months (period of time water-soluble CrVI content remains below 2 ppm)

CERTIFICATIONS

Product classified as type CT-C30-F6 material for indoor screeds in compliance with EN 13813. Declarations of Performance (DoP) are available on request.

Legend of EN 13813 classification		
CT = cement screed	C = compressive strength	F = flexural strength

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.