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

TYPES OF SUBSTRATES
- New or old concrete slabs
- Light substrates and/or separating layers
- Pre-existing cement screeds
- Acoustic-thermal insulating systems, panels and barriers
TYPES OF MATERIAL DUE TO BE APPLIED
- Ceramic
- Wood or parquet
- PVC, linoleum or carpets

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
- ≥ 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.

ATTENTION
Do not use the product in the following cases:
- at temperatures lower than +5 °C or higher than +30 °C
- with less water that 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

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).

PACKAGING
25 kg valve bags (pallets are made up of 54 bags weighing 1,350 kg)

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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.

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.

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

TECHNICAL REQUIREMENTS
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**

**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.

<table>
<thead>
<tr>
<th>Consistency:</th>
<th>powder</th>
</tr>
</thead>
<tbody>
<tr>
<td>Granulometry:</td>
<td>0 - 4 mm</td>
</tr>
<tr>
<td>Mixing water:</td>
<td>6.5 % i.e. approx. 1.6 litres per 25 kg bag</td>
</tr>
<tr>
<td>Application temperature:</td>
<td>from +5 °C to +30 °C</td>
</tr>
<tr>
<td>Temperature of the base:</td>
<td>from +5 °C to +25 °C</td>
</tr>
<tr>
<td>Yield of wet mortar:</td>
<td>53 litres for 100 kg product</td>
</tr>
<tr>
<td>Consumption:</td>
<td>approx. 18 kg/m³/cm</td>
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<tr>
<td>Apparent density:</td>
<td>1,800 kg/m³</td>
</tr>
<tr>
<td>Density – after drying at 105°C:</td>
<td>approx. 2,150 kg/m³</td>
</tr>
<tr>
<td>Vapour permeability μ (EN 1015-19):</td>
<td>approx. 30</td>
</tr>
<tr>
<td>Heat conductivity λ10,dry:</td>
<td>1.4 W/m*K</td>
</tr>
<tr>
<td>Specific heat:</td>
<td>approx. 1 kJ/kg*K</td>
</tr>
<tr>
<td>Specific heat capacity:</td>
<td>approx. 2,070 kJ/m³*K</td>
</tr>
<tr>
<td>Compressive strength (1 day):</td>
<td>approx. 20 MPa</td>
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<tr>
<td>Compressive strength (4 days):</td>
<td>approx. 24 MPa</td>
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<tr>
<td>Compressive strength (28 days):</td>
<td>&gt; 30 MPa</td>
</tr>
<tr>
<td>Flexural strength (28 days):</td>
<td>&gt; 6 MPa</td>
</tr>
<tr>
<td>Surface bonding strength:</td>
<td>&gt; 1.5 MPa</td>
</tr>
<tr>
<td>Can be walked on after:</td>
<td>1 day</td>
</tr>
<tr>
<td>Flooring can be laid after:</td>
<td>approx. 2 days (6 cm) with flooring permeable to vapour</td>
</tr>
<tr>
<td>Flooring can be laid after:</td>
<td>approx. 4 days (6 cm) with flooring permeable to vapour</td>
</tr>
<tr>
<td>Can be heated after:</td>
<td>approx. 3 days</td>
</tr>
<tr>
<td>Permissible residual moisture:</td>
<td>&lt; 3 % (for flooring permeable to vapour and all tiles)</td>
</tr>
<tr>
<td></td>
<td>&lt; 2 % (flooring impermeable to vapour such as PVC, parquet, etc.)</td>
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<tr>
<td></td>
<td>&lt; 1.8 % (screed with incorporated heating)</td>
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<tr>
<td>Reaction to fire (EN 13501-1):</td>
<td>A1f</td>
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<tr>
<td>Screeds and materials for screeds (EN 13813):</td>
<td>CT-C30-F6</td>
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</tbody>
</table>

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

**SPECIFICATION CLAUSE**
Application of ready-mixed, semi-rapid setting and drying cement screed, classified as CT C30 F6 in compliance with EN 13813, commercial name Fast Screed by Torggler, to make bonded and unbonded screeds. Approximate consumption: ......... kg/m².

To the best of our knowledge the information given in this document is true and accurate. However, since we have no direct control over the actual conditions of use, our recommendations and suggestions are provided as a guide only and do not constitute a guarantee. If you have any doubts we recommend that you test the product before use or contact our specialists for further advice. Torggler Chimica Spa reserves the right to change, substitute or delete items or otherwise make variations to the product data in this document without prior notice. It is possible therefore that the information given in this document is no longer valid. This document substitutes the previous version. Version 12.2017.