

Relö® Fast Screed Cement

Art. No. 2814

Fast setting screed cement for the production of screeds ready for covering in indoor and outdoor areas.

Property profile:

Relö Fast Screed Cement is a factory mixed, fast setting screed cement that is mixed with screed sand and water and sets very quickly hydraulically. The fresh mortar is smooth, easy and economical to use. Relö Fast Screed Cement is a special cement with the following properties:

- Special screed cement that binds water very quickly and is plastic modified
- Screed is easy to work and can be pumped
- Easy to level, smooth and rub
- Foot traffic after 3 hours
- Tiles can be laid after just a few hours
- Resistant to water and alternating frost/thaw loads
- For indoor and outdoor use

Characteristic data of the product:

| | |
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| Colour: | grey |
| Consistency: | wet to plastic |
| Working time (+20 °C): | 45 min |
| Foot traffic* after: | 3 hours |
| Tiles laid* in a bond with screed: | after 6 hours |
| Swimming screed | after 12-24 hours |
| Heated screed* | after 3 days |
| Parquet, carpeting and plastic flooring: | approx. 48 hours* (with a max. residual moisture content of 3% - CM moisture meter) |
| Compressive strength*: | after 24 h > 10 N/mm ² after 28 days 25 N/mm ² |

Tensile bending strength*: after 24 h > 2 N/mm²
after 28 days approx. 6 N/mm²

(In accordance with DIN 1164 – 1 : 4 parts by weight cement : aggregate)

* Depending on temperature and humidity

Range of use:

- Fast cement for the production of screeds that can be covered early in indoor and outdoor areas
- For screeds with a bond, on parting layers and insulation layers. For early loadable heated screeds
- Particularly for renovation and restoration work under time limitations (operating and production facilities, hotels, restaurants)

Substrate:

The substrate must be clean, dry and free of substances that could interfere with the adhesion of Relö Fast Screed Cement (e.g. layers of sinter, release agent, loose material, dust, abraded rubber, oils, grease, etc.). To produce a bonded screed, clean the substrate and remove non load-bearing layers (e.g. by steel ball jetting, grinding, brushing). Substrates subjected to vehicle traffic should always be roughened mechanically (adhesive pull strength \geq 1.5 N/mm²).

Directions:

Composition of the fast screed:

The fast screed is produced in a mixing ratio like a cement screed. The aggregates used according to DIN 4226 with a continuous grain composition should be from the upper half of the favourable grading curve range found in DIN 1045. Do not use any additives such as oils. Do not mix with other cements or extend.

Technical Information Sheet

Production of the fast screed:

Mix 1 part by weight Relö Screed Fast Cement with 4 to max. 5 parts by weight screed sand (depending on the largest grain and strength).

Example aggregate 0/4 mm, 1 : 4 parts by weight:

Mix 7-11 litres of water (depending how moist the sand is) with 25 kg Relö Fast Screed Cement and 100 kg screed sand 0/4 mm for approx. 3 min until homogeneous in a screed or positive mixer until a **wet screed** has been achieved. In order to be able to sufficiently distribute, compact and smooth the quickly setting screed (approx. 45 min), it should not be mixed too dry!

Bonding layer for bonded screeds:

Highly adhesive bonded screeds are executed by placing a **cementitious bonding layer, wet-on-wet, according to parts by volume as follows:**

Prepare a **mixing liquid** consisting of **Aida Hafffest I** and **water** in a ratio of 1 : 2 parts by volume.

Mix 1 part by volume Relö Fast Screed Cement with 1 part by volume quartz sand 0.2-2.0 mm (dry) in a ratio of 1 : 1, then add the **mixing liquid** and mix until a homogeneous, adhesive mortar in a grouting consistency has been achieved.

Applying the bonding layer:

Brush the bonding layer thoroughly onto the substrate in a layer 3-5 mm thick and then place the screed immediately, **wet-on-wet**, onto the mat damp substrate!

Do not allow the bonding grout to dry!

Working the fast screed:

Apply the finished mixture immediately to the substrate and quickly distribute, compact and rub in the intended layer thickness.

This work must be executed within the pot-life (approx. 45 min), to allow for sufficient compaction and smoothing. Material that has started to set already should not be used since sufficient compaction and strength can no longer be achieved.

Screeds surfaces should only be as large as can be completed within the working time. Large surfaces should be divided by vertical construction joints (e.g. with square timber). False and movement joints should be placed or adopted as with conventional cement screeds.

Notes:

Working time (45 min) is reduced at temperatures above 20 °C to approx. 30 minutes. Working temperatures range between 3 °C to 28 °C.

Initially set mortar cannot be made workable again by adding water or fresh mortar. Do not use when there is frost or on frozen substrates. Larger quantities of leftover set screed in working containers accelerates setting so containers should be cleaned thoroughly between batches. Protect the freshly placed fast screed from drying out too quickly in wind and sunlight.

Moisture sensitive covers and sealants should only be applied after the screed has thoroughly dried (after approx. 48 hours depending on temperature and humidity). The content of residual moisture should be tested with a CM moisture meter (max. 3% by weight residual moisture content) before moisture sensitive covers are laid.

Tools and cleaning:

Barrel mixer with staggered baffles, positive mixer, drill with a spiral mixing tool, screed layer's smoothing trowel, plasterer's float, winged smoother.

Tools should be cleaned with water while the cement is still fresh.

Packaging, application rate and storing:

Packaging: 25 kg paper bags

Application rate: **Mixing ratio 1 : 4:** approx. 3.5-4.0 kg cement/m² and cm layer thickness

Mixing ratio 1 : 5: approx. 3.0-3.5 kg

Shelf-life: Approx. 12 months stored dry in closed bags on wooden grids, protected from moisture.

Safety, ecology, disposal:

Low in chromates according to TRGS 613

Further information concerning safety during transport, storage and handling as well as for disposal and ecology is found in the latest Safety Data Sheet.

The statements above are compiled from our field of production and according to the latest technological developments and application techniques. Since application and working are beyond our control, no liability of the producer can be derived from the contents of this information sheet.

Any statements made beyond the contents of this information must be confirmed in writing by the producer.

In all cases, our general conditions of sale are valid.

With the publication of this Technical Information Sheet all previous editions are no longer valid.