Screed additive thin layer

Instructions for Use

Model
1454

Year built:
from 01/2005

for Fonterra radiant heating and cooling, cement heating screed as thin layer screed, improvement of heat conductivity, as well as the flexural tension and the compression strength

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1 About these instructions for use

Trade mark rights exist for this document, further information can be found at *viega.com/legal*.

1.1 Target groups

The information in this instruction manual is directed at the following groups of people:

- Heating and sanitary professionals and trained personnel
- Screed layer

It is not permitted for individuals without the abovementioned training or qualification to mount, install and, if required, service this product. This restriction does not extend to possible operating instructions.

The use of Viega products must be carried out in accordance with the general rules of engineering and the Viega instructions for use.

1.2 Other applicable documents

- Safety data sheet screed additive thin layer in acc. with 1907/2006/EU

These documents can be found at www.viega.com in the online catalogue under this product.

1.3 Labelling of notes

Warning and advisory texts are set aside from the remainder of the text and are labelled with the relevant pictographs.

DANGER!
This symbol warns against possible life-threatening injury.

WARNING!
This symbol warns against possible serious injury.

CAUTION!
This symbol warns against possible injury.

NOTICE!
This symbol warns against possible damage to property.

Notes give you additional helpful tips.

2 Product information

2.1 Safety advice

DANGER!
Causes skin irritation and severe damage to the eyes
Avoid contact with the eyes and skin.

- In case of contact with eyes, rinse thoroughly for a number of minutes.
- If possible, remove contact lenses, if worn.
- If necessary, contact a doctor.

DANGER!
Risk to health
Keep out of the reach of children.

NOTICE!
Observe the normal safety measures when dealing with chemicals.

- Protect yourself with working clothes and gloves.

2.2 Intended use

Additive for cement heating screed for the production of thin layer cement screeds in acc. with DIN 18560 / DIN EN 13813 in connection with underfloor heating in acc. with DIN EN 1264-4. Improves heat conductivity, as well as the flexural tension and the compressive strength.

System components for CE mortar CT - C30 - F ≥ 5.

The screed hardnesses are mainly dependent on the proper mortar mixture, the technically correct laying and the quality of subsequent treatment.

2.3 Features and mode of operation

Screed additive for thin layer screeds causes a notable increase in the flexural tension and compressive strength. The tendency to shrinkage cracks is strongly reduced through the balanced mixture and polymer modification. In addition a reduction of the air pore content is achieved, which leads to an improvement in the heat conductivity of the screed.

Additives are employed with the aim of positively influencing plastification, pumpability, binding, hardening and drying behaviour. They are not a substitute for unsuitably or incorrectly mixed screed mortars.

The drying time is mainly dependent on the thickness of the screed, the amount of water added and the climatic conditions. No other additives may be added to the screed when using screed additive for thin layer screeds.

NOTICE!
The residual humidity of the heating screed should be checked (CM measurement) by the subsequent tradesperson (normally the floorer) before the work of covering the floor is begun.

2.4 Technical data

Consumption	1.3 kg/m² at 30 mm pipe coverage and up to 2 kN/m²
Hardening time	21 days
Can be walked upon after	3 days

3 Handling

3.1 Transport and storage

Observe the following with transport and storage:

- Store in a frost-free place without direct sunlight.
- Can be stored in the closed canister for up to twelve months from the production date.
- Mix or shake before use.
- Delivery form: 10 kg plastic canister

3.2 Guide mixture

NOTICE!
We recommend protecting the hands (with skin cream containing fat or protective gloves) in accordance with the pertinent health and safety regulations.

Raw materials

Cement	CEM I 32.5 R (EN 197-1)
Aggregate	0/8 mm, wire line A/B (DIN 1045 / EN 206-1)
Water	Mains water
Additive	Screed additive thin layer (own colour light pink, milky)
Dosage	7–10 % of the cement weight depending on the hardness and load 0.210–0.330 kg per cm/m^2 screed
Mixing ratio	■ Cement (aggregate mixture): approx. 1:5–1:5.5 (M parts) ■ Cement content: ≥ 300–330 kg/m^3 ■ Aggregate: approx 1650–1815 kg/m^3  (50 kg cement : approx. 275 kg supplement)

Guide mixture for 200 l pull mill or supply mixer (in order of addition)

Aggregate 0/8	approx. 1/3
Cement CEM I 32.5 R	62.5 kg
Screed additive thin layer	approx. 5 l (at 30 mm pipe coverage)
Mixing water	approx. 5 l

Aggregate 0/8	approx. 2/3
Mixing water (depending on the individual wetness of the supplement)	5–10 l
Mortar consistency	plastic to soft

3.3 Disposal

Separate the product and packaging materials (e. g. paper, metal, plastic or non-ferrous metals) and dispose of in accordance with valid national legal requirements.

Residue can be mixed with cement and be disposed of in compliance with Technical Manual Waste Legislation: 31 309 as construction waste. The packaging can be re-used or recycled after cleaning.