

Instructions for Use

Screed additive thin layer



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 bending tensile strength and the compressive strength

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Table of contents

1	About these instructions for use	3
	1.1 Target groups	3
	1.2 Other applicable documents	3
	1.3 Labelling of notes	3
2	Product information	5
	2.1 Standards and regulations	5
	2.2 Safety advice	5
	2.3 Intended use	6
	2.4 Features and mode of operation	6
	2.5 Technical data	7
3	Handling	8
	3.1 Transport and storage	8
	3.2 Guide mixture	8
	3.3 Disposal	9

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 installer

It is not permitted for individuals without the abovementioned training or qualification to mount, install and, if required, maintain 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/EC

For the safety data sheet, refer to the respective product page in the online catalogue.

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 Standards and regulations

The following standards and regulations apply to Germany / Europe. National regulations can be found on the relevant web site of your country at viega.com/standards.

Regulations from section: Intended use

Scope / Notice	Regulations applicable in Germany
Cement and calcium sulphate heating screeds	DIN EN 13813
Screeds in the building trade	DIN 18560
Installation of underfloor heating	DIN EN 1264-4

Regulations from section: Suggested formulations

Scope / Notice	Regulations applicable in Germany
Cement / cement composition	EN 197-1
Aggregate	DIN EN 206-1 DIN 1045

Regulations from section: Disposal

Scope / Notice	Regulations
Disposal as construction waste	Abfallschlüssel TA-Abfall: 31 309

2.2 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.
- Wear eye protection and a face mask.

2.3 Intended use

Additive for the production of thin layer cement screeds for use in connection with underfloor heating, also refer to  „Regulations from section: Intended use“ on page 5. Improves heat conductivity, as well as the bending tensile strength and the compressive strength.

System components for CE mortar CT - C30 - F \geq 5.

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

2.4 Features and mode of operation

Screed additive for thin layer screeds causes a notable increase in the bending tensile strength 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 thin layer 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 fitter) before the work of covering the floor is begun.

2.5 Technical data

Consumption	1.3 kg/m ² at 30 mm pipe coverage and up to 2 kN/m ²
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
aggregate *	0/8 mm, wire line A/B
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 (quantity ratio) Cement content: ≥ 300–330 kg/m ³ Aggregate: approx. 1650–1815 kg/m ³ ; (50 kg cement : approx. 275 kg supplement)


* according to applicable regulations, see  „Regulations from section: Suggested formulations“ on page 5

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.

Mix residue with cement and dispose of as builders' waste after setting pursuant to the applicable regulations: also refer to  „Regulations from section: Disposal“ on page 5. The packaging can be re-used or recycled after cleaning.



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INT • 2020-06 • VPN170563

