

## Screed additive

# Instructions for Use



For Fonterra radiant heating and cooling, cement heating screed as normal screed, improvement of heat conductivity, as well as the bending tensile strength and the compressive strength

**Model**  
1453.1

**Year built:**  
from 01/2008

en\_INT

**viega**



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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](http://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 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.*

## 1.4 About this translated version

This instruction for use contains important information about the choice of product or system, assembly and commissioning as well as intended use and, if required, maintenance measures. The information about the products, their properties and application technology are based on the current standards in Europe (e. g. EN) and/or in Germany (e. g. DIN/DVGW).

Some passages in the text may refer to technical codes in Europe/Germany. These should serve as recommendations in the absence of corresponding national regulations. The relevant national laws, standards, regulations, directives and other technical provisions take priority over the German/European directives specified in this manual: The information herein is not binding for other countries and regions; as said above, they should be understood as a recommendation.

## 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](http://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 cement screeds for use in connection with underfloor heating; also refer to  „Regulations from section: Intended use“ on page 6. Improves heat conductivity, as well as the bending tensile strength and the compressive strength.

System components for CE mortar CT - C25 - F  $\geq$  4.

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 normal screed reduces the surface tension of the mixing water and causes an improved disintegration of the fine-grained binding agent. In this way, a homogenous, well-processed, well thickening screed, which completely surrounds the pipes is created. In comparison with a fresh mortar without an additive, the addition of screed additive causes an increase in the bending tensile strength and compressive strength.

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 normal screed.


**NOTICE!**

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

## 2.5 Technical data

Consumption	140 g/m <sup>2</sup> at 45 mm pipe coverage and up to 2 kN/m <sup>2</sup>
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: 20 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
Dosage	1 % of the cement weight
Mixing ratio	Cement (aggregate mixture): approx. 1:5.5 (quantity ratio) (50 kg cement : approx. 275 kg supplement) Cement content: approx. 300 kg/m <sup>3</sup> Aggregate: approx. 1650 kg/m <sup>3</sup>

\* according to applicable regulations, see  „Regulations from section: Suggested formulations“ on page 6


#### Order of dosage (addition in 200 l pull mill or supply mixer)

Aggregate 0/8	approx. 1/3
Cement CEM I 32.5 R	50 kg
Mixing water	approx. 10 l
Screed additive	0.4–0.5 l
Aggregate 0/8	approx. 2/3

Mixing water (depending on the individual wetness of the supplement)	7–10 l
Mortar consistency	plastic to soft (KP to KR)

### 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 6. The packaging can be re-used or recycled after cleaning.