

Instructions for Use

Screed additive



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

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.

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.

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 5. 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 ² at 45 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: 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 ³ Aggregate: approx. 1650 kg/m ³ |

* according to applicable regulations, see [Regulations from section: Suggested formulations](#) on page 5


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



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INT • 2022-08 • VPN170562

