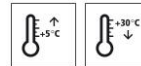


# Technical Data Sheet

## StoCrete LE

Screed material with lightweight aggregates, cementitious, layer thickness of 20-80 mm



### Characteristics

**Area of application**

- as a smoothing coat or to achieve predetermined levelness on horizontal concrete members (concrete and light concrete) such as balcony areas and access balconies

### Properties

- cementitious screed material
- very good application properties
- low modulus of elasticity
- low mass per unit area
- building material class A1 in accordance with EN 13501-1

### Information/notes

- always apply a finishing coat
- product is in accordance with EN 13813

### Technical data

Criterion	Standard / test specification	Value/ Unit	Notes
Bulk density of fresh mortar	EN 1015-6	1.7 kg/dm <sup>3</sup>	
Maximum particle size		4 mm	
Bond strength (28 days)	EN 13892-8	> 2.0 MPa	
Compressive strength	EN 13892-2	> 30 MPa	
Flexural strength	EN 13892-2	> 4.0 MPa	

The characteristic values stated are average values or approximate values. Due to the natural raw materials in our products, the stated values can vary slightly in the same delivery batch; this does not affect the suitability of the product for its intended use.

### Substrate

#### Requirements

Requirements on the substrate:  
The concrete substrate must be load-bearing and free from native and foreign substances that could interfere with adhesion, as well as from corrosion-promoting components (e.g. chlorides).  
Remove less strong layers and laitance.

Damp in accordance with the definition in EN 1504-10.

Tensile strength > 0.7 MPa

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## StoCrete LE

### Preparations

Prepare the substrate using a suitable mechanical process, such as abrasive blasting or high-pressure water blasting (> 800 bar).

#### Note:

Rework any treated surfaces using a suitable process (abrasive blasting) if the substrate preparation process has led to joint faults in the area of the remaining existing concrete close to the surface. These can result from chiselling, knocking, milling, or flame cleaning.

### Application

#### Application temperature

Lowest application temperature: +5 °C  
Highest application temperature: +30 °C

#### Time for application

At +5°C: approx. 30 minutes  
At +20 °C: approx. 25 minutes  
At +30 °C: approx. 15 minutes

#### Mixing ratio

20 kg of material in accordance with the description/6 - 7.2 l water = 1.0 : 0.30 - 0.36 parts by weight

#### Material preparation

1. Compulsory mixer: 2 sacks StoCrete LE = 40 kg and 12 l water. Add water to the stirrer, add 2 sacks StoCrete LE and mix well. Mixing time approx. 3 minutes.
2. Counter-running hand mixer: 1 sack StoCrete LE = 20 kg and 6 l water. Add water to the mortar tub, add StoCrete LE and mix well. Mixing time approx. 3 minutes
3. Screed pump: 7 bags StoCrete LE = 140 kg + approx. 43.2 l water First decant one bag of StoCrete LE Pour in water and the remaining pre-mixed dry mortar into the mixer, then mix for 3 - 4 minutes.  
The settings depend on the machine and should be checked before application.

#### Consumption

Type of application	Approx. consumption
per mm layer thickness	1.4 kg/m <sup>2</sup>

Material consumption depends on the application, substrate, and consistency, among other factors. The stated consumption values are only to be used as a guide. If required, determine precise consumption values on the basis of the specific project.

#### Coating build-up

- 1) Substrate preparation
- 2) mineral bonding agent with StoCrete TH 200
- 3) work StoCrete LE in, trowel off, and abrade to a layer thickness: 20-80 mm

#### Application

can be conveyed using a screed pump

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### StoCrete LE

#### 1) Substrate preparation

#### 2) Bonding agent

Pre-wet the concrete substrate sufficiently before applying the StoCrete TH 200 bonding agent (about 24 hours before the first application cycle).

At the time of application, however, the concrete substrate must be dry to the point that it just appears slightly damp.

Apply the StoCrete TH 200 bonding agent with pressure using a suitable tool such as a paint brush or brush.

Remove any cured bonding agents by abrasive blasting and renew them.

consumption approx. 1.9 kg/m<sup>2</sup>

#### 3) Laying of the lightweight screed

Apply StoCrete LE to the fresh mineral bonding agent StoCrete TH 200, distribute, compact, trowel off, and roughly abrade for the subsequent coating.

Always work wet on wet to ensure an adhesive bond.

Consumption: approx. 17 kg/m<sup>2</sup>/cm (mixed material)

Apply StoCrete LE with a bucket trowel, plastering trowel, shovel, screeding level, spirit level, plasterer's float (Dallusch), if necessary, using a power trowel and pointed flooring trowel.

If required, use a power trowel to recompact and smooth with a pointed flooring trowel.

#### Manual application:

For mixing, mixing devices such as the UEZ compulsory mixer, the ZM 80 Jetmix, 140 l drum mixer approx. 60 - 80 l mixture are recommended.

Note! Not more than 2 bags, as otherwise the mixer will overflow!

Or use a counter-running, interlocking paddle mixer: e.g. Collomatic RGE 162 Duo and a mortar tub (by the bag, mix a max. of 2 bags).

Machine conveyance using a screed pump for larger surfaces:

Mix in the screed pump for a duration of approx. 3 - 4 min.

Screed pump boiler pressure: 3 bar

Screed pump conveying pressure: 4.5 - 5 bar

Screed pump conveyance time for each mixture: approx. 50 sec.

at a hose diameter of 50 mm and a hose length of 40 m

To achieve the required technical properties of StoCrete LE, sufficient and careful curing is necessary.

#### 4) curing

Curing procedure:

a) Cover with film or sheeting

b) Spray with water

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## StoCrete LE

### c) Chemical curing

Under normal conditions, curing must last at least 3 days.

#### Note:

Chemical curing may only be carried out if the subsequent work is compatible with this.

It is not possible to achieve a uniform colour shade of the mortar surface for procedural reasons.

The foil must not touch the surface of the mortar.

A key part of curing is adequately wetting the concrete substrate before applying the mortar, so that the substrate is water-saturated and the fresh mortar does not extract mixing water.

<b>Drying, curing, ready for next coat</b>	At +20 °C and 65 % relative humidity the next coat can be applied after approx. 48 hours. with StoPox 452 EP + StoPur EB 200 or StoPox 452 EP + StoPur EA
<b>Cleaning the tools</b>	Clean tools with water immediately after use.
<b>Notes, recommendations, special information, miscellaneous</b>	General application instructions are available at <a href="http://www.stocretec.de">www.stocretec.de</a> and in the notes of the latest Technical Manual.

### Delivery

**Packaging** sack

Article number	Name	Container
00767-001	StoCrete LE	20 kg bag

### Storage

**Storage conditions** Store in dry conditions.

**Storage life** In the original container until ... (see packaging).  
This product has a low chromate content.  
The product quality is best guaranteed in its unopened original container until its shelf life has expired. The first digit of the batch number is the final digit of the year. The second and third digits indicate the calendar week. Example:  
1450013223 - shelf life until end of calendar week 45 in 2021.  
For further explanation, see the price list.

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## StoCrete LE

### Certificates/approvals

EPD-FEI-20160017-IBG1      Modified mineral mortars, group 1

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### Identification

**Product group**                      Lightweight screeding mortar

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### Safety

This product is subject to compulsory labelling in accordance with the current EU regulation.  
You will receive an EU Safety Data Sheet with your first order.  
Please observe the information regarding the handling of the product, its storage, and disposal.

### Special notes

The information in this Technical Data Sheet serves to ensure the product's intended use, or its suitability for use, and is based on our findings and experience. Users are nevertheless responsible for establishing the product's suitability and use.  
Applications not specifically mentioned in this Technical Data Sheet are permissible only after prior consultation. Where no approval is given, such applications are at the user's own risk. This applies in particular when the product is used in combination with other products.

When a new Technical Data Sheet is published, all previous Technical Data Sheets are no longer valid. The latest version is available on the Internet.

StoCretec GmbH  
Gutenbergstr. 6  
D-65830 Kriftel

Tel.: +49 6192 401-104  
Fax: +49 6192 401-105  
stocretec@sto.com  
www.stocretec.de