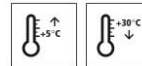


Technical Data Sheet

StoCrete TG 302

Repair mortar for floors, polymer-modified, cementitious, layer thickness 6–100 mm



Characteristics

Area of application

- as a concrete repair product for the structurally relevant and non-structurally relevant repair of concrete screeds and floor areas in accordance with EN 1504-3
- for levelling unevenness on floor areas
- for creating an inclination
- as a substrate for surfaces subject to vehicle traffic, e.g. industrial flooring
- interior and exterior

Properties

- flexible layer thickness from 6 mm up to 100 mm in one application cycle
- can be installed with mixing and pumping technology
- soft plastic, wobbly consistency
- easily compacted
- easy to level and smooth
- thixotropic
- high resistance to ice and salt
- no bonding agent required with maximum addition of water
- building material class A2fl-s1 in accordance with EN 13501-1

Information/notes

- product conforms to class R4 in accordance with EN 1504-3

Technical data

Criterion	Standard / test specification	Value/ Unit	Notes
Maximum particle size		2,0 mm	
Bond strength	EN 1542	≥ 2,0 MPa	
Compressive strength	EN 12190	≥ 60 MPa	
Flexural strength	TL/TP PCC	≥ 10,0 MPa	
Static modulus of elasticity	EN 13412	27 GPa	

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

Technical Data Sheet

StoCrete TG 302

Requirements

General:

- Load-bearing
- Free from separating, native, or foreign substances
- Remove weak layers.
- Remove any accumulation of fine concrete particles on the surface.
- Produce sufficient roughness, average roughness depth at least 1.0 to 1.5 mm
- Expose the maximum particle size of the aggregate in the concrete substrate in a domed manner

Damp substrate:

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

- Preparation grade of exposed reinforcing steel following substrate preparation: Sa 2½ in accordance with EN ISO 8501-1.

- Bond strength, average: 1.5 N/mm²
- Bond strength, lowest single value: 1.0 N/mm²

Preparations

Prepare all the above-mentioned substrates using a mechanical method, see "Substrate, requirements".

Example:

- Shot-blasting
- Milling followed by shot-blasting
- Abrasive blasting
- Water blasting at > 800 bar
- Open pores and blow-holes sufficiently.
- Bevel the edges of the areas of spalling under approx. 45°.

Application

Application temperature

Application temperature:
minimum temperature: +5 °C
maximum temperature: +30 °C

Time for application

At +23 °C: approx. 30 minutes

Mixing ratio

25 kg material / 3.25 l water = 1.0 : 0.13 part by weight
For steep inclinations (≥10 %) reduce addition of water to up to 3.0 l = 1.0:0.12 parts by weight.
Mixing and pumping technology:
-addition of water is machine-dependent
-determine prior to application
-check regularly during building work

Technical Data Sheet

StoCrete TG 302

Material preparation

Prepare material in compulsory mixer or with a mixing feed pump.

Prepare material in compulsory mixer:

- 1) Decant water.
- 2) Switch on the mixer.
- 3) Add the StoCrete TG 302 ready mixed dry render while mixing.
- 4) Mix the material for 2 minutes.
- 5) Allow the material to mature for 3 minutes.
- 6) Mix the material for 30 seconds.

Mixer and delivery pump (e.g. InoComb Cabrio 0.2)

- The settings are machine-dependent
- Determine prior to application
- Check regularly during building work
- Remix with a static hose mixer

Consumption	Type of application	Approx. consumption	
	per mm layer thickness	2,0	kg/m ²
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) prepare the substrate
- 2) Bonding agent, optional: StoCrete BE bonding agent
- 3) Concrete repair product: StoCrete TG 302
- 4) curing

Application

manual, can be mixed and pumped using mixing and pumping technology (e.g. InoComb Cabrio 0.2)

- 1) Prepare the substrate.
- 2) Depending on the substrate, it may be possible to omit a bonding agent if the maximum amount of water is added:
 - StoCrete BE bonding agent
 - Pre-wet the concrete approx. 24 hours beforehand.
 - Allow the concrete to dry so that it is slightly damp when it is applied.
 - Apply the product. Tools: paint brush, brush
 - Application rate of dry mortar: approx. 2.0 kg/m²
 - Apply and compact StoCrete TG 302 wet on wet with the bonding agent.

Note:

Technical Data Sheet

StoCrete TG 302

- Remove any cured bonding agent by abrasive blasting and re-apply.

3) Concrete repair product:

- StoCrete TG 302
- Pre-wet the concrete substrate approx. 24 hours beforehand.
- The concrete should be slightly damp when StoCrete TG 302 is applied.
- Mix the StoCrete TG 302 product and water.
- coverage: approx. 22.0 kg/m² per cm spalling depth or layer thickness (mixed material)

Horizontal and inclined surfaces:

- Manually apply the concrete repair product and distribute with a screed distributor or dapple bar.
- Reduce the amount of water added when installing on steep inclinations (e.g. on ramps).
- Use bonding agent if less water has been added.
- Adjust the concrete repair product to the desired layer thickness. Tools: screed distributor, dapple bar, screed board
- Leave the surface as it is, create a broom finish using a steel broom, or smooth the surface once it has started to stiffen. The drying time depends on the local conditions.

Tools: smoothing trowel

4) curing

- curing duration: at least 5 days (at 23 °C)

The following curing methods are suitable. Select the best method in light of the local conditions:

- A) Cover with plastic sheets or mats. The sheet must not touch the surface of the mortar.
- B) Spray with water.
- C) Chemical curing. Check the compatibility of the chemical curing with the following layers or work steps in advance.

Note:

A uniform colour shade of the mortar surface is not possible.

- Prior to coating, prepare the surface using mechanical methods (e.g. shot blasting).

Drying, curing, ready for next coat	Over-coatable with primer for damp substrates (e.g. StoPox 452 EP): at +23 °C: after 2 days
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Cleaning the tools	Clean with water after use. Collect cleaning water/rinsing water and dispose of it professionally.
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Technical Data Sheet

StoCrete TG 302

Remove bonded material by mechanical means.

Notes, recommendations, special information, miscellaneous

- The thixotropic material behaviour leads to a higher flow diameter if the material is moved or shaken.

Observe the general application instructions:
see www.stocretec.de, Products
- see technical manual, notes
Declaration of performance, CE marking:
- declaration of performance: see www.stocretec.de

Delivery

Packaging sack

Article number	Name	Container
00266-001	StoCrete TG 302	25 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.
Provided the storage conditions are adhered to, the quality of the product in its unopened, original container is guaranteed until the maximum storage life has expired. The storage life can be deduced from the batch number of the container.
Batch number explanation:
Number 1 = the last number of the year, numbers 2 + 3 = calendar week
Example: 430 219419781 – storage life until end of week 30 of 2024
Use promptly after opening.

Identification

Product group Screed materials

GISCODE ZP1

Safety

This product is subject to compulsory labelling in accordance with the current EU regulation.
Observe the Safety Data Sheet!

Technical Data Sheet

StoCrete TG 302

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.

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