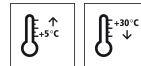


# Technical Data Sheet

## StoCrete TG 104

Screed material, polymer-modified, cementitious,  
layer thickness 12 - 40 mm



### Characteristics

**Area of application**

- for levelling unevenness in floor areas; for producing a slope; as a subfloor for a wearing layer in buildings (e.g. balcony); and on surfaces subject to vehicle traffic.

### Properties

- can be quickly over-coated
- polymer-modified cementitious screed material (PCC)
- low shrinkage and low residual stress

### Information/notes

- product is in accordance with EN 1504-3
- always apply with a finishing coat
- as a concrete repair product for the application case PCC I
- Only on surfaces subject to vehicle traffic in non-regulated scope (ZTV-ING)

### Technical data

Criterion	Standard / test specification	Value/ Unit	Notes
Bulk density of fresh mortar	EN 1015-6	2.2 kg/dm <sup>3</sup>	
Maximum particle size		4 mm	
Bond strength (28 days)	EN 1542	> 2.0 MPa	
Compressive strength (28 days)	EN 12190	57 MPa	
Flexural strength (28 days)	TP BE-PCC	8 MPa	
Static modulus of elasticity (28 days)	EN 13412	23 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

#### Requirements

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

Damp in accordance with the definition in the DAfStb (German) Repair Guideline 2001-10.

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Cleanliness grade of the exposed reinforcing steel after substrate preparation: Sa 2½ in accordance with EN ISO 8501-1.

Average bond strength 1.5 N/mm<sup>2</sup>  
Bond strength of the single smallest value 1.0 N/mm<sup>2</sup>

#### Preparations

Prepare the substrate using a suitable mechanical process, such as abrasive blasting or high-pressure water blasting (> 800 bar).  
Bevel the edges of the areas of spalling under approx. 45°.

**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 old 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. 35 minutes  
At +23 °C: approx. 20 minutes  
At +30 °C: approx. 15 minutes

**Mixing ratio**      25 kg of material in accordance with the description / 2.75 l of water = 1.0 : 0.11 parts by weight  
SMF technology: set sight glass to approx. 270 l water / h

**Material preparation**      Compulsory mixer: Decant water first and add the pre-blended dry mortar. Stir for approx. 2 minutes. Allow to mature for approx. 3 minutes. Remix for approx. 30 seconds.

SMF technology: mixing tube / 2-stage mixing shaft / subsequent mixing with a compulsory mixer.

#### Consumption

Type of application	Approx. consumption	
per mm of layer thickness	2.0	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) Protection against corrosion with StoCrete TK (for exposed reinforcement)
- 3) Mineral bonding agent with StoCrete TH 200

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4) Concrete repair with StoCrete TG 104  
Layer thickness: 12 - 40 mm, partially up to 100 mm  
Higher layer thicknesses are possible due to multi-layer work.

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#### Application

manually, suitable for conveying with a screed pump, manually or by machine with Sto silo technology)  
With StoSilo technology.

##### 1) Substrate preparation

Derust the exposed reinforcing steel in accordance with DIN EN ISO 12944-4 up to preparation grade Sa 2½. The derusted reinforcing steel must be free from dust and grease.

##### 2) Protection against corrosion

Immediately after derusting the reinforcing steel, coat with StoCrete TK in two application cycles in accordance with DIN EN ISO 12944, part 4.  
Coat the reinforcing steel completely and evenly using a paint brush.

Waiting times between the two application cycles 4.5 hours.

The protection against corrosion must have hardened on the reinforcing steel to an extent that it cannot be loosened from the reinforcing steel during application cycle 2.

Application cycle 1: StoCrete TK grey, consumption approx. 130 g/m single application Ø up to 18 mm

Application cycle 2: StoCrete TK light grey, consumption approx. 140 g/m single application Ø up to 18 mm

or

Application cycle 1: StoCrete TK grey, consumption approx. 150 g/m single application Ø over 18 mm

Application cycle 2: StoCrete TK light grey consumption approx. 160 g/m single application Ø over 18 mm

##### 3) 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 agent by abrasive blasting and renew it.

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

##### 4) Concrete repair product/PCC screed

Apply StoCrete TG 104 as a concrete repair product / PCC screed onto the fresh mineral key coat StoCrete TH 200; spread it; compress it; trowel it off rough for the next coating. To ensure a good adhesive bond, always work wet on wet.

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Consumption approx. 22 kg/m<sup>2</sup> per cm of layer thickness (mixed material)

Apply using a mason's trowel, square trowel, shovel. Then compact by tamping, trowel off with a float, and use a plasterer's float (e.g. Dallusch) for finishing the surface.

On larger surfaces, the material can be applied with a vibrating beam screed. If doing so, test in advance.

For multi-layer installation (layer thicknesses over 4 cm), do not trowel the preceding layer smooth. If it is, lightly blast the surface. Reapply the bonding agent.

### 5) Curing

Curing procedure:

- a) Cover with film or sheeting
- b) Spray with water
- c) Curing using chemicals

Under normal conditions, curing must last at least 3 days. Observe the relevant standard DIN 1045-3: 2001-07, the B8 data sheet "Nachbehandlung von Beton" (11.2002) published by the Bauberatung Zement, and ZTV-ING (2006-07) (Additional technical terms of contract and guidelines for civil engineering).

Note:

Curing with chemicals may only be carried out if subsequent work is compatible with this.

A uniform colour shade of the mortar surface is not possible due to the application method.

The film 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.

Observe the explanations in ZTV-W LB 219 (2013) (German only).

Note:

Please note: Before coating, blast the surface (shot-blasting).

Manual application:

with a mason's trowel, square trowel and shovel, screeding level, spirit level, plasterer's float (e.g. Dallusch), if required a power trowel and screed blade.

SMF technology (silo and mixing):

Mixing occurs in the silo.

Mixing interruption at +25 °C: max. 30 min.

Remix with a compulsory mixer. Duration: approx. 0.5 minutes.

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If conveying with a screed pump:  
 Remix with a screed pump. Duration: 0.5 minutes  
 Vessel pressure of the screed pump: 4 - 7 bar.  
 Hose diameter: 50 mm.  
 Feeding length: 50 - 80 m.  
 Feeding height: up to 30 m.

**Cleaning the tools** Clean with water immediately after use; hardened material can only be removed mechanically.

**Notes, recommendations, special information, miscellaneous** The Declaration(s) of Conformity can be obtained from the StoCretec Technisches InfoCenter  
 General application instructions can be found at [www.stocretec.de](http://www.stocretec.de) (Products) and in the latest issue of the "Technical Data Sheets" manual, in the appendix.

#### Delivery

**Packaging** sack

Article number	Name	Container
02351-001	StoCrete TG 104	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. We guarantee this property until maximum storage life expires. Please observe the guaranteed storage life data on the batch no. shown on the container.  
 Explanation of batch number: e.g. 6050017152  
 In this example, storage life until the end of week 05 in 2016 is guaranteed (digit 1 = last digit of the year, digits 2 + 3 = calendar week). For further explanation, see the price list.

#### Identification

**Product group** Screed material

**Safety** This product is subject to compulsory labelling in accordance with the current EU directive.  
 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.

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### 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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