

Grout, cementitious, layer thickness 20-70 mm

CE 8

€+30°C
IE V
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	18
-	112
	StoCrete TV I
	10
	10
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Characteristics	
Area of application	 for grouting building elements such as machinery, fixing bolts, crane rails, bridge bearings, steel cast in units, pocket foundation elements, and support recesses for grouting openings in concrete members in accordance with method 3.2 of EN 1504-9
Properties	 resistant to salt and frost impermeable to water consistent homogeneity high flowability very good application properties

• meets the requirements of class R4 in accordance with EN 1504-3

Technical data

	Criterion	Standard / test specification	Value/ Unit	Notes
	Bulk density of fresh mortar	EN 1015-6	2,3 kg/dm ³	
	Maximum particle size		4 mm	
	Bond strength (28 days)		> 2,0 MPa	
	Compressive strength	EN 1504-3		Class R 4
	Flexural strength	TP BE-PCC	10 MPa	
	Static modulus of elasticity	EN 1504-3		≥ 20 GPa
Substrate	the natural raw materials in same delivery batch; this de intended use.			
Requirements	Requirements on the substa The concrete substrate mus substances that could interf	st be load-bearing ar		0



	Average bond strength: 1.5 N/mm ² Bond strength, lowest single value: 1.0 N/mm ²			
Preparations	Prepare the substrate using a suitable mechanical process, such as abrasive blasting or high-pressure water blasting (> 800 bar). Open pores and blow-holes sufficiently.			
Application				
Application temperature	Lowest application temperature: +5 °C Highest application temperature: +30 °C			
Time for application	Pour and grout immediately after mixing	ng.		
Mixing ratio	25 kg of material in accordance with the description / 2.875 - 3.125 l water = 1.0 : 0.115 - 0.125 parts by weight			
Material preparation	Decant water into a compulsory mixer and then add StoCrete TV 304 in the correct mixing ratio and mix (max. 400 rpm) for 2 minutes.		04 in the correct	
Consumption	Type of application	Approx. co	nsumption	
	per litre of cavity	2,1	kg	
	Material consumption depends on the among other factors. The stated consuguide. If required, determine precise of specific project.	umption values are only to be	e used as a	
Coating build-up	1) Substrate preparation 2) Grouting with StoCrete TV 304 Grouting depth of StoCrete TV 304: 2 Higher layer thicknesses are possible			
Application	pumping and conveying by machine p	ossible		
	1) Prepare the substrate using a suitable mechanical process.			
	Derust the exposed reinforcing steel in accordance with DIN EN ISO 12944-4 up to preparation grade Sa 2½ in accordance with DIN EN ISO 8501-1. The derusted reinforcing steel must be free from dust and grease.			
	2) Corrosion protection Immediately after derusting of the rein 12944, Part 4, coating with StoCrete T The reinforcing steels are coated unifo	TK is carried out in two applic	ation cycles.	



Waiting times between the two application cycles: 4.5 hours. The protection against corrosion must be sufficiently hardened on the reinforcing steel so that it cannot detach from the reinforcing steel during the second application cycle.

First application cycle: StoCrete TK grey consumption approx. 130 g/m one-time application $\ensuremath{\varnothing}$ up to 18 mm

Second application cycle: StoCrete TK light grey consumption approx. 140 g/m one-time application \emptyset to 18 mm or

First application cycle: StoCrete TK grey consumption approx. 150 g/m one-time application Ø above 18 mm

Second application cycle: StoCrete TK light grey consumption approx. 160 g/m one-time application \emptyset above 18 mm

Protection against corrosion is not necessary if the concrete covering is sufficiently thick and dense!

3) Grouting

Approx. 24 h before applying the product, sufficiently pre-wet the concrete substrate for the first time. At the time of application, however, it must be dry to the point that it just appears slightly damp.

If formwork is necessary, ensure it is sufficiently stable. Before grouting, wet this with water or treat it with suitable release agents to prevent water extraction. This also makes it considerably easier to remove the formwork later.

Perform grouting starting from one side or corner. Ensure that the grouting process is not interrupted.

For larger-scale grouting work, pour the grout into the centre of the opening (hopper or hose).

Application by machine in the dense flow process is possible using a screw pump, e.g. WM-Variojet, PFT N2V, or similar.

If the surface is to be processed further, e.g. with a subsequent coating, scatter StoQuarz 0.3 - 0.8 mm over the grout once it is in place for improvement of the bonding properties.

Avoid stark vibrations in the surrounding areas in the first hours after placing StoCrete TV 304.

Consumption of StoCrete TV 304: approx. 2.3 kg per litre of void (mixed material)

4) Curing Curing procedure:



a)	Cover	with	film	or	sheeting
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- b) Spray with water
- c) Chemical curing

Under normal conditions, curing must last at least 3 days. Observe the relevant standard DIN 1045-3:2012-03, the B8 data sheet "Nachbehandlung und Schutz des jungen Betons" (4.2014) published by the Verein Deutscher Zementwerke e.V., and ZTV-ING (2014/12) (available in German only).

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.

Cleaning the tools	Clean with water immediately after use. Hardened material can only be removed mechanically.		
Notes, recommendations, special information, miscellaneous	General application instructions are available at www.stocretec.de and in the notes of the latest Technical Manual.		
Delivery			
Packaging	sack		
	Article number	Name	Container
	00455-001	StoCrete TV 304	25 kg bag
Storage			
Storage conditions	Store in dry conditior	IS.	
Storage life	See product 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.		



Identification Product group	Grouts
GISCODE	ZP1
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

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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