



# Cebex<sup>®</sup> Cable Grout

## Plasticising and hydrogen free expansion grout admixture

### Uses

Cebex Cable Grout is an admixture for cement grouts where a reduced water / cement ratio and positive expansion are required. Applications include bed grouting, duct grouting, non-shrink infilling and jointing.

### Advantages

- Hydrogen free expansion system compensates for plastic shrinkage and settlement in properly designed cementitious grout.
- Reduced water / cement ratio in the grout mix ensures low permeability and long term durability in service.
- Gives high grout fluidity with low water / cement ratio, thus making placement or injection of the grout easy.
- No metallic iron content to corrode and cause staining or deterioration due to rust expansion in the grout.
- Composition allows high early strength development in grouts, without the use of chlorides.

### Description

Cebex Cable Grout a plasticising and hydrogen free expansion grout admixture is supplied as a powder admixture. Cebex Cable Grout allows the use of a reduced water / cement ratio with consequent increased strengths and durability. The expansive medium counteracts the natural settlement and plastic shrinkage of the grout and aids stability and cohesion.

### Technical Support

Fosroc offers a comprehensive range of high performance, high quality concrete repair and construction products. In addition, Fosroc offers technical support service to specifiers, end-users and contractors, as well as on-site technical assistance in locations all over the country.

### Properties

**Chloride content** : Nil to BS : 5075

**Compressive strength** : The plasticising action of Cebex Cable Grout allows reduction of the water/cement ratio of cementitious grouts whilst maintaining flow properties. This gives improvement in strength and long term durability when cured under restraint.

**Setting Time** : Cebex Cable Grout may slightly retard the setting times of cement based grouts depending on the cement and ambient temperature.

**Expansion characteristics** : The controlled positive expansion in unset grouts incorporating Cebex Cable Grout overcomes plastic settlement when measured in accordance with ASTM C827. An unrestrained expansion of upto 2% is typical.

**Time of expansion** : 15 minutes - 2 hours. Temperatures above 20°C may slightly reduce these times.

**Compatibility** : Cebex Cable Grout is compatible with all types of portland cement. Cebex Cable Grout may be used in mixes containing certain other Fosroc admixtures. Consult Fosroc for further information.

### Application instructions

#### Mixing

For best results a mechanically powered grout mixer must be used. For quantities upto 50kg a slow speed drill fitted with a high shear paddle is suitable. Larger quantities will require a high shear vane mixer. It is essential that machine mixing capacity and labour availability is adequate to enable the grouting operation to be carried out continuously. This may require the use of a holding tank with provision for gentle agitation to maintain fluidity. The selected water content should be accurately measured into the mixer. Slowly add the cement and Cebex Cable Grout. Mix continuously for 5 minutes, making sure that a smooth even consistency is obtained.

#### Application

Areas to be grouted should be prepared to ensure substrates are clean, sound, and then pre-wetted. The unrestrained surface area of the grout must be kept to a minimum. Place the grout as early as possible after mixing to gain the full benefit of the expansion process. Adopt usual placing or pumping procedures ensuring a continuous operation.

#### Curing

On completion of the grouting operation, any exposed areas which are not to be cut back should be thoroughly cured by means of water application, Concure curing membrane or wet Hessian.

#### Clean

Grouts mixed with Cebex Cable Grout should be removed from tools and equipment with clean water immediately after use. Cured material should be removed mechanically or with Reebaklens.

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## Limitations

Cebex Cable Grout is incompatible with High Alumina Cement. Required expansion may not be achieved, if grout is bleeding.

## Estimating

### Packing

Cebex Cable Grout is supplied in 225 g packs.

### Dosage

OPC Approx.	Concreting	Water	Cebex Cable Grout sand	Yield
50kg	-	**	225g	36 litres
50kg	50kg	**	225g	57 litres

\*\* Best determined by site trials. As a guide suggested W/P is 0.39 to 0.45.

Note : For grout, mortar or concrete mixes with an aggregate/ cement ratio more than 1, use 4 x 225g units of Cebex Cable Grout per 100 kg of cement.

## Effects of overdosing

Drastic overdosing of Cebex Cable Grout increases expansion and may cause frothing.

## Storage

6 months if kept in a dry store in its original packing. High temperature and humidity storage may reduce this period.

## Precautions

### Health and Safety

Cebex Cable Grout is of low hazard. Contact with the skin and eyes, or inhalation of dust should be avoided. Suitable protective clothing, gloves, eye/face protection and dust mask should be worn. Any contact with skin, should be washed with clean water. In case of contact with eyes, should be rinsed immediately with plenty of water and sought medical attention.

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† See separate data sheet  
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### Important note :

Fosroc products are guaranteed against defective materials and manufacture and are sold subject to its standard terms and conditions of sale, copies of which may be obtained on request. Whilst Fosroc endeavours to ensure that any advice, recommendation specification or information it may give is accurate and correct, it cannot, because it has no direct or continuous control over where or how its products are applied, accept any liability either directly or indirectly arising from the use of its products whether or not in accordance with any advice, specification, recommendation or information given by it.

#### telephone

++91 80-22240018/120

#### fax

++91 80-22233474

#### e-mail

india@fosroc.com

### Regional Offices



### Fosroc Chemicals (India) Pvt. Ltd.

#### Head Office

111/3, Hafeeza Chamber II Floor,  
K H Road, P.No. 2744, Bangalore 560027  
[www.fosroc.com](http://www.fosroc.com)

#### Bangalore

Shankar House, IV Floor  
1 & 18, RMV Extension  
Bangalore 560 080  
Ph:080-2361 3161/2361 2004  
Fax : 080-2361 7454  
email: Bangalore@fosroc.com

#### Mumbai

208/209, Persepolis  
Sector 17, Vashi  
Navi Mumbai 400 703  
Ph:022-2789 6412/14  
Fax: 022 - 2789 6413  
email:Mumbai@fosroc.com

#### Delhi

First floor, 1/2 East Patel Nagar  
Opp: Vivek Cinema, Main Patel Rd  
New Delhi 110 008  
Ph:011-25884903/4  
Fax: 011- 25884422  
email:Delhi@fosroc.com

#### Kolkata

P-569, Lake Terrace Extn.  
First Floor  
Kolkata 700 029  
Ph: 033 24650917 / 55343188  
Fax: 033-24650891  
email:Kolkata@fosroc.com

- Ahmedabad : (079) 26762799 ● Ankleshwar : (02646) 220704/224687 ● Bhubaneswar : (0674) 2546415 ● Chennai (044) 24899949/24853383
- Chandigarh : (0172) 2639360 ● Cochin : (0484) 2356668 ● Coimbatore : (0422) 2472966 ● Goa : (0832) 2542465 ● Guwahati (0361) 2548793
- Hyderabad : (040) 27662324/27662425 ● Hubli (0836) 09343402597 ● Indore : (0731) 504339/5061477 ● Jaipur : (0141) 2235349
- Jamshedpur: (0657) 2223848 ● Lucknow : (0522) 2239044 ● Nagercoil 09842134873 ● Visakhapatnam : (0891) 2564850 / 2707607

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