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CB-G EG Grout



Product description

CB-G EG Hilti epoxy grout is a solvent free, self levelling two component Non-Shrink epoxy grout. This specially formulated grout offers good flow characteristics and high strength providing excellent resistance to impact and vibration.

Fields of application

High strength grouting and under-filling of structural elements in concrete, metal, stone, etc. subject to heavy dynamic or static loads e.g.

- Able to develop full restraint by preventing rotation of the fixture when used under a baseplate in accordance with the requirements of §4.2.2.4 of ETAG 001 Annex C design methods for anchorages
- Grouting of machinery and equipment with high load requirements
- Precision alignment under dynamic load conditions
- Structural grouting of baseplates, columns, beams, crane rails, bridge bearings etc.
- The grout may also be suitable for installing dowels in oversized holes where detailed design is not required.

Product features

- Highly resistant to static and dynamic stresses
- Excellent flow properties
- High early strength
- Easy to process 2-component grouting mortar
- Good chemical resistance
- For the majority of applications no primer is required with this grout

Packing

Ready to use work packs

Consisting of

Component A – Resin with filler material:	14.10 kg
Component B – Hardener:	0.90 kg
CB-G EG 15 kg pail	Item Number 00430897

Yield 7.5l (7500cc) at ~ 2.0kg/Litre density

Accessories

Mixer paddle

Technical data

Compressive strength (at 20°C)

1 day	100 N/mm ²
3 days	110 N/mm ²
7 days	120 N/mm ²

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Flexural strength (at 23 °C)

7 days > 35 N/mm²

Bond strength

Concrete	7 days	> 4 N/mm ²
Steel	7 days	> 10 N/mm ²

Aggregate Grain size

0 - 0.5mm

Installation instructions

Application thickness (mm)

Min 5mm layers
Max 80mm layers

Mixing ratio (Component A : B)

16:1 note mix full packs only

Substrate temperature

Min + 5°C
Max + 30°C

Pre-treatment of substrate

The surfaces to be grouted must be solid, clean and free from oil, grease and other contaminants that may act as a bond breaker. Remove all loose material and laitance. Concrete surfaces must be dry, sound and roughened to insure proper bond, if these conditions cannot be maintained then a primer (CM405-1) will be required.

The grouting area should be kept between 5°C and 30°C and shaded from direct sunlight. During cold weather it is important that the grouted areas be kept warm (above 10 °C) until the grout has cured completely.

Metal surfaces that are to be bonded to the epoxy grout should be sandblasted to a bright metal finish and wiped clean with solvent. Apply grout immediately to prevent re-oxidizing or moisture condensation

Formwork

Standard wood or metal forming may be used. The formwork must provide rapid, continuous grout placement and needs to retain grout without leakage. The forms should be protected with heavy coats of paste wax, grease or form release agent. The formwork must be constructed in a way that air will not be entrapped during the placement of the grout.

Mixing

Before handling please read the safety instructions on the packaging.

Store the material at room temperature for at least 24 hours before use. Setting time and strength development are dependent on ambient temperature. High temperatures will accelerate the setting process of the grout while low temperatures will have a retarding effect.

- 1) Component A (resin and aggregate) should first be mixed for 2 minutes, using a slow speed mixer (200 rpm max.)
Then add Component B (hardener), and continue to mix until the grout shows a consistent grey colouring (ca. 4 minutes).
- 2) Pour this mixture into another container and continue mixing for another 2 minutes. To prevent the formation of air pockets while mixing, the mixing spiral must always be kept below the surface

Application

Immediately after mixing place grout from one side allowing it to flow to the opposite and adjacent sides thereby avoiding air entrapment. Provide vent holes where needed to prevent air entrapment. If larger areas need to be grouted, head boxes, pumps or filling from a central point will help applying the grout.

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If the required grout height exceeds the maximum recommended application thickness, then the epoxy grout needs to be applied in layers. After the full cure of the first layer (24 hours at 20°C) roughen the surface of the first layer with a grinder, remove the dust and then apply the next layer.

Finishing

If a smooth finish is desired, the surface of the grout may be ground and painted with an appropriate paint or protective coating.

Pot life

The prepared mix should be used up immediately, at least within:

- 60 minutes at 10°C
- 30 minutes at 20°C
- 15 minutes at 30°C

Cleaning of tools

All tools and equipment may be cleaned with a solvent before material hardens.

Storage

The product can be stored during 18 months (see date on side of bag DD.MM.YY-xxx = day/month/year/batch) in a dry place in original unopened packaging.

Do not store at temperatures below + 10°C and above + 30°C or in direct sunlight.

Safety precautions

Before handling, read the safety instruction on the packaging and the material safety data sheets for details of use and health information. For industrial use only! Keep out of the reach of children.

HILTI TECHNICAL ADVISORY SERVICE TELEPHONE 0161 886 1144

IMPORTANT NOTES

1. The information and recommendations given herein are believed to be correct at the time of writing. The data has been obtained from tests done under laboratory, or other controlled, conditions and it is the users' responsibility to use the data given in the light of conditions on site and taking account of the intended use of the products concerned. Whilst Hilti (Gt. Britain) Limited can give general guidance and advice, the nature of Hilti products means that the ultimate responsibility for selecting the correct product for a particular application must lie with the customer.
2. All products must be used, handled and applied in accordance with current instructions for use published by Hilti (Gt. Britain) Limited.
3. All products are supplied, and advice given, subject to Hilti (Gt. Britain) Limited terms of business.
4. Hilti's policy is one of continuous development. We therefore reserve the right to alter specifications etc. without notice.
5. Construction materials and conditions vary on different sites. If it is suspected that the base material has insufficient strength to achieve a suitable fixing, contact the Hilti Technical Advisory Service.