

Technical Data Sheet Concretum® Q-FILL (P) Grout

A) Description

Product:

Concretum® Q-FILL is a rapid-hardening and self-levelling grout purely based on cement. It consists of one component and is mixed with water.

Application:

Concretum® Q-FILL is used for filling tight hollow spaces, which are difficult to access. The fast hardening allows early mechanical reloading. Concretum® Q-FILL has been developed especially for fixing loose embedded tram and railway tracks, but can be used for all similar applications. Concretum® Q-FILL is not applicable on free surfaces.

Advantages:

- Very high flowability (self-leveling)
- Low viscosity (even smallest hollow spaces are filled)
- Rapid hardening
- Does not contain any epoxy or methacrylate resins

B) Product data

Function:

Concretum® Q-FILL is self-leveling and develops a minimal strength of 20 N/mm² at a level of water addition according to the given information (Summer version: after 3 hours and 25°C; Winter version: after 3 hours and 15°C). The hardening is accelerated by higher temperatures.

Colour:

Grey powder

Delivery:

20 kg paper bag, pallet of 25 bags

Shelf life:

In unopen original packaging six months from production if stored properly.

Storage:

In unopen original packaging and under dry conditions.

Chemical basis:

Combination of powder additives and hydraulic binder.

Uniformity:

homogeneous

Bulk density:

0.9 kg/l



Content of water-soluble chlorides:
< 0.1 M-%

C) Operating instructions

Preparations:

The surfaces of the gaps have to be wetted with water before filling them with Concretum® Q-FILL (rinsing). The remaining water in the gap has to be removed (purgings). The basis has to be clean, icefree and load-carrying. Temperature of material, underground and surroundings: 20 to 30°C (summer version), 10 to 20°C (winter version).

Mixing:

Concretum® Q-FILL is added to the mixer together with drinking water (pay attention to mix ratio). The mixture is made with the help of a manual stirrer, a mortar mixer or a grouting material mixer and is being mixed until a homogeneous, clot-free and liquid consistence is reached (mixing time: approx. 4 minutes). Mix 100 parts of Concretum® Q-FILL with 30 - 33 parts of drinking water. 1 bag of Concretum® Q-FILL (20 kg) mixed with 6.0 - 6.5 liters of water equals approx. 13 liters.

Operation time:

- 30 minutes at 20°C (summer version) or 10°C (winter version)
- 20 minutes at 30°C (summer version) or 20°C (winter version)

D) Data

All data published in this technical data sheet is based on internal laboratory tests of Concretum AG. Real values may vary due to external factors that cannot be affected by Concretum AG.

E) Country specific data

Data and values on products of Concretum AG may vary depending on the country of application. The corresponding local technical data sheets are valid. In the case of doubt Concretum AG provides information on valid data and values for the country in question.

F) Important safety information

By using Concretum® Q-FILL, the recommendations as to application and personal protective clothing referring to cement apply. The powder has alkaline (basic) and irritating effects. For detailed safety information it is recommended to seek advice in the current material safety data sheet on our homepage (www.concretum.com).

G) Proof of defects

Products of Concretum AG feature the specific properties that are completely described in this data sheet. For quality control purposes Concretum AG retains samples of each production batch for 24 months. If products of Concretum AG are censured as defective by a customer, a verification of this statement is done solely by checking the corresponding batch sample by an internal testing procedure.



H) Legal information

This data sheet is part of a possible contract between Concretum AG and the customer. The properties of the products are completely described in section B. An application of the products has to be done according to both the instruction of Concretum AG and this data sheet.

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