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GROUTING CONCRETE JB 1000/3

Product description

Fescon Grouting Concrete 1000/3 is a concrete for demanding casting applications that expands before setting and has an extremely high strength. The maximum grain size is 3.0 mm.

- Strength class C 60/75 (28 days, +20°C)
- Excellent casting properties (pliable, easy flow)
- Good adhesive properties
- Low drying shrinkage
- SILKO-approved
- Frost-resistant

Applications

- Fastening and installation castings of machinery
- Grouting of columns
- Grouting of bridge bearings
- Demanding casting in cramped and difficult conditions

The product is listed in the portal for building products that can be used in Nordic Swan Ecolabelled buildings.

Instructions

Base

The base must be undamaged, clean, and damp enough to be darker in colour. If necessary, remove the weak-strength cement paste layer. Best adhesion can be achieved to a rough base. The mould must be tight, because the grouting concrete is very pliable and flows easily. Normal casting can be carried out from one side. Thus, build that side's mould higher than usual and, if necessary, also wider, so that the grouting concrete can fill the casting space under its own weight. When using galvanised steels, you must make absolutely sure that the coating has become passive.

Mixing

Refer to the bag for how much water the concrete requires. Add the dry material to the water and mix with a concrete mixer for around ten minutes. With a power mixer, around one to three minutes of mixing is sufficient. Let the plaster stand for around five minutes and mix it again for a short while. Find the correct consistency at this stage by gradually adding the rest of the water. We do not recommend adding all of the water right at the start. The finished concrete remains workable for around one hour.

Work instructions

We recommend casting as soon as possible after mixing the mass, as this allows the full utilisation of the expansion of the fresh mass. The mass is so pliable that compacting is not usually necessary. The flow can be enhanced by ramming or light vibrating. When doing thick casting layers (over 50 mm),

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you should do the casting in several layers. Each layer must be allowed to harden for at least one day before the next casting. Another method for thick casting layers is to add coarse aggregate (6-10 mm) (around 15% of the weight of the dry mixture) to the concrete. You should, however, perform advance testing. Do not allow the freshly cast concrete to freeze. The lowest usage temperature is +5°C.

After treatment

You must care for the cast surface by spraying with water and/or protect it with a plastic film. The need for aftercare depends on the conditions. It should continue for at 7 days.

Waste handling

Storage and handling of waste
See the separate storage and disposal instructions https://www.fescon.fi/en/material-bank

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Technical information

Water requirement	2.7 - 3,3 l / 25 kg
Finished compound	11 - 12 l / 25 kg bag
Composition	Portland cement, natural sand (max. grain size 3.0 mm), and additives that improve workability and weather resistance, and also make the fresh concrete to expand.
Package size	25 kg and 1000 kg
Storage	Storage time in a dry location approx. 1 year
Workability time	1 h
Strength class	C 60/75
Volume change	< +5 %
Exposure class	XC 4, XD 3, XS 3, XF 4, XA 1 (XA 2) (100 years)
Chloride content	0.01 %
Frost resistance	(SILKO) no erosion in a 50-cycle frost-salt test

Limitation of liability, product use notes and restrictions: Please familiarize yourself with Fescon Oy's general terms of delivery and the design and work instructions related to the product.