Hämeenkatu 9
05800 HYVINKÄÄ
Tel. 020 789 5900
www.fescon.fi

GROUTING CONCRETE JB 600/3



Product description

Fescon Grouting Concrete 600/3 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 50/60 (28 days, +20°C)
- Highly effective protection against steel corrosion
- Excellent casting properties (pliable, easy flow)
- Good adhesive properties
- Low drying shrinkage
- SILKO-approved
- frost-resistant

Applications

- Anchor grouting
- Grouting of columns
- Jointing and grouting of prefabricated elements
- Injection casting

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

Instructions

Mixing

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.

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), you should do the casting in several layers. Each layer must be allowed to harden for at least one day before the next casting. Do not allow the freshly cast concrete to freeze. The lowest usage temperature is +5°C.

After treatment

Hämeenkatu 9
05800 HYVINKÄÄ
Tel. 020 789 5900
www.fescon.fi

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 least one to three days.

Waste handling

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

Hämeenkatu 9
05800 HYVINKÄÄ
Tel. 020 789 5900
www.fescon.fi

Technical information

Water requirement	3.3-3.75 l/25 kg
Finished compound	11 - 12 l / 25 kg bag
Type	Powder
Binder	Portland cement
Aggregate	Natural sand
Colour	Grey
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 50/60
Adhesion strength	(SILKO) > 2.5 Mpa (from the beginning of the breakpoint)
Tensile strength	grouting concrete meets the pullout test requirement of standard EN 1881 according to standard EN 1504-6
Volume change	< +5 %
Reaction to fire	A1
Exposure class	XC 4, XD 3, XS 3, XF 4, XA 1 (XA 2) (100 years)
Chloride content	0.01 %
Carbonation	(SILKO) 0 mm in expedited test (CO_2 5%, 91 days)
Frost resistance	(SILKO) no erosion in a 50-cycle frost-salt test
GWP A1 raw material	0.255
GWP A2 transport	0.0167
GWP A3 manufacturing	0.0217
GWP A1-A3	0.293
GWP A4 transport	0.012
GWP A5 assembly	0.00309
GWP unit	kg CO2e/kg
Method for calculating the GWP value	EPD

Hämeenkatu 9
05800 HYVINKÄÄ
Tel. 020 789 5900
www.fescon.fi

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.