

Hämeenkatu 9
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www.fescon.fi

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WINTER CONCRETE TB S 30



Product description

Fescon Winter Concrete is a special concrete that enables successful casting during winter at temperatures as low as -15°C. The strength class of the product increases. The strength class is C 30/37 from the date of manufacture 1.1.2023.

- Strength class C 30/37
- Frost-resistant
- Good workability
- No chlorides

Applications

- Horizontal grouting of elements

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 and clean. Snow and ice must be melted away from the base. If necessary, also remove the weak-strength cement paste layer. Best adhesion can be achieved to a rough base. 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 mass stand for a while 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. If you are unable to use the concrete immediately after mixing, we recommend mixing it again before casting. The finished concrete remains workable for around half an hour.

Work instructions

Casting should be done as soon as possible after mixing. If necessary, vibrate the casting lightly or ram it. Recommended casting layer thickness 15-100 mm. Follow the instructions of the designers and the official regulations on winter concreting when doing casting work.

After treatment

The fresh casting must be protected from snow and rain. Strength development continues without additional heating in temperatures above -15°C.



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Other points to note

Winter products will be available in the winter season, from 15 September to 1 March. At other times, the products must be ordered separately.

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	2.4 - 3.0 l / 25 kg of dry product
Finished compound	11 - 12 l / 25 kg of dry product
Composition	portland cement, natural sand (max. grain size 3.0 mm), additives that improve workability and ensure strength development in freezing temperatures.
Maximum grain size	3 mm (the shape of natural stones may vary)
Package size	25 kg and 1000 kg
Lowest usage temperature	-15°C
Workability time	approx. 0.5 h
Strength class	C 25/30 The strength class of the product increases. The strength class is C 30/37 from the date of manufacture 1.1.2023.
Strength development	1 day at +20°C approx. 20 MPa 7 days at +20°C approx. 30 MPa 28 days at +20°C approx. 40 MPa 7 days at -15°C +7 days at +20°C approx. 25 MPa 7 days at -15°C +28 days at +20°C approx. 35 MPa
Exposure class	XC4, XD2, XF3, XA1
Flow/plasticity	approx. 140 mm