

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

Updated 24.2.2026 Printed 24.5.2026

CEMENT PLASTER S 30 C30/37



Product description

Cement plaster S 30 is a CE-marked, factory-produced, ready-to-use dry concrete that meets quality and strength requirements. It complies with the concrete standard SFS EN 206-1 with a compressive strength class of C 30/37, and has a maximum aggregate size of 4 mm. Exposure classes: XF 1, XC 4, XD 2 (50 years).

- Strength class C 30/37
- Complies with SFS-EN 1504-3 requirements, class R3

Applications

- As underfilling concrete for precast elements
- Repair of concrete structures and casting defects
- Post-casting applications
- Casting of thin surface slabs
- Casting in applications requiring weather and frost resistance
- Layer thickness: 10–70 mm

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

Instructions

Base

- The substructure temperature must be between +5°C and +25°C
- The substrate may be a concrete base, insulation board, or the product may be cast directly onto the ground
- If casting onto a concrete base, the surface must be clean, solid, dust-free, and absorbent
- Any reinforcement must be installed according to the structural design
- If the substrate consists of weak concrete (tensile strength < 0.5 MPa) or insulation board, the concrete must be cast as a floating, reinforced structure
- The floating slab must be separated from the subfloor and vertical structures

Priming

- The concrete substrate must be moistened to a matt-damp condition before applying the product. No free water should be present.
- Liquid bonding primers must not be used with this product.

Mixing and Application

- Avoid strong wind, direct sunlight, and rain during application.
- During casting and curing, the temperature of both the air and substrate must be between +5°C and +25°C.



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- One 25 kg bag of dry powder is mixed with 2.5–3.1 litres of clean water.
- It is recommended to start with the minimum amount of water and add more if needed.
- Do not exceed the recommended water amount, as this will reduce strength values, increase the risk of segregation, and prolong drying time.
- The product is mixed into a smooth and homogeneous mass using a mixing paddle, concrete mixer, or pan mixer. Mixing time with mortar whisk or pan mixer: approx. 2 minutes, with concrete mixer: approx. 5 minutes
- After mixing, allow the material to rest for approx. 10 minutes, then remix briefly.
- Working time is approx. 2 hours from mixing.
- Tools must be cleaned with water immediately after use.

Curing

- Adequate moist curing must be ensured during the hardening phase to allow proper hydration and to achieve the desired strength. This also helps to prevent plastic shrinkage cracking and surface delamination from the substrate.
- The surface of the applied product must be kept moist for 2–5 days. Depending on site conditions, moist curing can be carried out using fine water misting, plastic sheeting, or Fescon Curing compound.
- Especially in spring, curing must begin immediately and be carried out carefully, as the relative humidity is often below 40% RH. Low humidity, combined with sunlight and wind, can cause the surface to dry out very rapidly.

Additional Information

- Formwork, reinforcement, and casting work must be carried out in accordance with standard construction practices and the designer's instructions.

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

Material usage	Approx. 2.0 kg/m ² /mm
Water requirement	2.5-3.1 l/25 kg
Finished compound	Approx. 12 - 13 l / 25 kg
Type	Powder
Binder	Cement
Colour	Grey
Maximum grain size	4 mm (the shape of natural stones may vary)
Package size	25 kg and 1000 kg
Storage	Storage time in a dry location approx. 1 year
Density	Approx. 2100 kg/m ³
Layer thickness	10–70 mm (minimum 50 mm when used as a floating and reinforced structure)
Fibre	Not fiber-reinforced
Additives	Additives that improve weather resistance and workability
Usage temperature	+5°C...+25°C
Workability time	Approx. 2 h
Compressive strength	C 30/37
Reaction to fire	A1
Exposure class	XF 1, XC 4, XD 2 (50 years). XF 1, XC 4 (100 years)
Chloride content	≤ 0,05 %
Frost resistance	Frost-resistant
Waterproofness	Water-resistant

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.