

WEBER S 30 CEMENT MORTAR C30/37-4



- Frost-resistant
- Strength classified
- Multipurpose
- The product is listed in the portal for building products that can be used in Nordic Swan Ecolabelled buildings.

ABOUT THIS PRODUCT

Frost-resistant R3-class easy-to-use casting mortar for various smaller concrete jobs. Maximum grain size 4 mm.

AREA OF USE

The product meets the requirements of standard SFS-EN 1504-3 class R3, concrete structure repair and reinforcement methods 3.1 (manual mortar patching) or 3.2 (concreting by casting). Applications include small surface castings and corridor tile castings, grouting of concrete elements, repairs of casting defects and concrete structures, as well as smaller castings requiring weather-resistant mortar of strength class C30 / 37-4. The product meets the stress classes XF1, XC4 according to SFS-EN 206 (design working life 100 years). Recommended layer thickness 10-50 mm.

SUBSTRATE

The substrate must be absorbent and free of dust, cementitious adhesives and other substances that reduce adhesion. The lowest operating temperature is +5 ° C. Casting in direct sunlight or strong winds should be avoided.

CONSTRAINTS

PRODUCT SPECIFICATION

Material consumption	approx. 20 kg/m ² /10 mm layer thickness
Recommended water content	12-13 l/100 kg (12-13 %)
Mixed volume	approx. 490 l/1000 kg
Pot life (Operating time)	approx. 1 h
Binder	CEM I 52.5 N
Aggregate	Natural sand 0-4 mm
Additive	Additives which improve workability and weather resistance
Adhesion strength 28 days	> 1.5 MPa (EN 1542)
Compressive strength class	C30/37-4
Compressive strength 1 day	approx. 10 MPa (EN 12190)
Compressive strength 7 days	approx. 25 MPa (EN 12190)
Compressive strength 28 days	approx. 40 MPa (EN 12190)
Restrained shrinkage/ expansion	Adhesion strength after test > 1.5 MPa (EN 12617-4)
Unrestrained shrinkage 28 days	0.7 mm/m (EN 12617-4)
Fire class	A1 (EN 13501-1)
Frost resistance	Yes (100 cycle freeze-thaw test SFS 5447). > 1.5 MPa (SFS-EN 13687-4).
Air content	8-12 %
Chloride content	< 0.05 % (SFS-EN 1015-17)
Density	approx. 2050 kg/m ³
Water cement ratio	0.55 (at maximum water volume)
Equipment recommendations	Weber mortar or dry mortar station
Storage conditions	Shelf life 12 months from the date of manufacture (unopened package, dry place)
Package	25 kg sack. 1000 kg large sack.
GTIN-codes	6415990410366 (25 kg) 6415990410359 (1000 kg)
Certifications	CE, FI, Key Flag Symbol

- Not suitable for use in structures in direct contact with fire. Use refractory mortar in the above-mentioned structures (such as for casting a firebox or outdoor grill tile), in accordance with the weber VM Tuli Fireproof casting mortar instructions.

MIXING

One bag (25 kg) of dry matter is mixed with 3.0-3.25 litres (12-13% of the dry weight of the mortar) of clean water. Adding too much water should not occur as it lowers strength and increases shrinkage. Mix in a concrete mixer. Small amounts can also be mixed with a drill whisk.

WORK INSTRUCTIONS

The work follows normal mortar application and material working procedures. Repair and plastering work follow the general instructions for carrying out the work in question, e.g. wetting the substrate or brushing the adhesive layer. When casting small surface castings, indoors, adhesion to the cleaned concrete substrate is ensured by

using weber MD 16 Primer and water with a mixing ratio of 1:3. Also check out Weber's solutions and the chapter on element installation plasters in the Weber Guide.

AFTER-TREATMENT

The casting is post-treated by wetting and preventing moisture from evaporating from the structure, e.g. with plastic covers, for at least 3 days. Aftercare is started immediately and the casting must be kept moist throughout the aftercare period. Aftercare is discontinued gradually.

DISCLAIMER

As there are different conditions at every opportunity, Weber can not be held responsible for anything other than the information provided under the heading "Product Specification". Examples of information and circumstances, which are outside Saint-Gobain (whether specifically stated or not) include storage, construction, processing, interoperability with other products, workmanship and local conditions.