

weber S 30 Luja C35/45-4 Cement mortar



- Frost-resistant
- Strength classified
- Multipurpose

ABOUT THIS PRODUCT

Frost-resistant R3-class easy-to-use casting mortar for various 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 castings requiring weather-resistant mortar of strength class C35 / 45-4. 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

- Not suitable for use in structures in direct contact with fire. Use refractory mortar in the above-mentioned

PRODUCT SPECIFICATION

Material consumption	approx. 20 kg/m ² /10 mm layer thickness
Recommended water content	10.9-12 l/100 kg (10.9-12 %)
Mixed volume	approx. 490 l/1000 kg
Pot life (Operating time)	approx. 1 h
Binder	Cement
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	C35/45-4
Compressive strength 1 day	approx. 10 MPa (EN 12190)
Compressive strength 7 days	approx. 40 MPa (EN 12190)
Compressive strength 28 days	approx. 50 MPa (EN 12190)
Restrained shrinkage/expansion	Adhesion strength after test > 1.5 MPa (EN 12617-4)
Unrestrained shrinkage 28 days	1.0 mm/m (EN 12617-4)
Fire class	A1 (EN 13501-1)
Exposure class	For applications in structures subject to exposure class requirements, refer to the separate Weber concrete products - classifications and approvals table available on the product page.
Frost resistance	Yes (100 cycle freeze-thaw test SFS 5447). > 1.5 MPa (SFS-EN 13687-4).
Air content	5-10 %
Chloride content	< 0.05 % (SFS-EN 1015-17)
Density	approx. 2100 kg/m ³
Water cement ratio	0.45 (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	1000 kg large sack.
GTIN-codes	6415910056032 (1000 kg)
Certifications	CE, FI, Key Flag Symbol

structures (such as for casting a firebox or outdoor grill tile), in accordance with the weber VM Tuli Fireproof casting mortar instructions.

MIXING

100 kg of dry matter is mixed with 10.9-12 litres of clean water. Adding too much water should not occur as it lowers strength and increases shrinkage. Mix in a concrete mixer.

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.

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.