

OV 30

Cement screed



Special cement screed with fibres, intended for sloping floor structures.

DECLARATION: EN 13813 CT-C30-F6-B0,5

Cement screed material (CT) according to EN 13813, intended for the laying of floor covering.

APPLICATION:

For the manual preparation of combined (connected) and floating screeds in internal and external environments. This product is particularly suitable for areas with requirements for higher strength, resistance, and variable thickness of a layer, such as a sloping layer on balconies, loggias, terraces, communal showers, etc. The recommended thickness of the sloping layer is 5-100 mm; permissible thickness of the layer is 15-80 mm (thickness of the floating screed layer is dimensioned according to static calculations).

COMPOSITION:

Aggregates, cement, reinforcing fibres, redispersible polymer, and other additives improving processing and end-use properties of materials.

TECHNICAL PARAMETERS:

MANDATORY			
Compression strength (class M30)	min. 30.0 MPa	Reaction to fire	Class A1 _{fl}
Tensile bending strength (class F6)	min. 6.0 MPa	Volume weight of hardened mortar	2100-2300 kg/m ³
Binding force (class B0.5)	min. 0.5 MPa	Coefficient of heat conductivity λ	min. 1.50 W/m.K *)
Release of dangerous substances	CT		

*) tabular value

INFORMATIVE		
Grain size		0-4 mm
Amount of mixing water:	per 1 kg of dry mixture	0.10-0.12 l/kg
	per 1 bag (25 kg)	2.5-3 l
Spreading rate		approx. 1950 kg/m ³
Pot life		min. 1 hour
Recommended thickness of the sloping layer:		5-100 mm
Usage:	unit – at layer of 10 mm	approx. 19.5 kg/m ²
	at the recommended thickness	approx. 10-195 kg/m ²
Spreading rate from one bag (25 kg) – screed area at an average layer of 50 mm		approx. 0.25 m ²
Surfaces loaded by walking people (final walking surface) – waiting time		after 3 days
Durability – number of cycles (frost resistance according to ČSN 72 2452)		min. 50

NOTE: The technical parameters are determined under standard conditions (20 ± 2)°C and (65 ± 5)% of relative air humidity.

LASSELSBERGER, s.r.o.
Adelova 2549/1
320 00 Plzeň - Jižní Předměstí
Czech Republic

TEL +420 378 021 111
FAX +420 378 021 119
E-MAIL info@rako.cz
WEB www.rako.cz

BANK DETAILS: Česká spořitelna, a.s.
6221912/0800
Company ID number 25238078
Tax ID number CZ25238078

The company is registered in the Companies Register, administered by the Regional Court in Plzeň, Section C, File 22719

BASE PREPARATION:

- a) **Composite (contact) screeds** should be laid into the contact bridge prepared from **OV 30** modified **EM 10** (see the Technical Data Sheet). The base must be load-bearing, free of dust, grease and loose particles, and should not be frozen.
- b) **Floating screeds** should be laid on a suitable separating layer. To avoid the creation of cracks, expansion joints are designed depending on the size and shape of surfaces. It is necessary to respect work or construction joints, and perform peripheral extensions of vertical structural elements (walls, pillars, pipes, etc.). To increase the flexibility of heated floors, the **EM 10** modification emulsion can be added into **OV 30** (see the Technical Data Sheet).

PROCESSING:

Prepare the screed by mixing the dry mixture with a prescribed amount of water in a drum, or continuous mixer. The water and dry mixture ratio is selected according to the manufacturer's recommendations. Spread the mixed homogeneous mass on the prepared base, and compact the mass with strokes of a trowel. Then, level the surface using a lath, and smooth it with a plastic or steel trowel. Fresh surfaces should be protected from direct effects of thermal radiation (premature drying), and from the action of water. Keep the screed in a wet state for 2-3 days.

CAUTION:

- The general rules specified in ČSN 74 4505 Floors - Common Regulations should be followed when designing, applying, and treating screeds.
- The mixture can be mixed only with drinking water, or water conforming to standard EN 1008.
- It is inadmissible to add additional binders, aggregates, and other inadvisable additives. Sifting of the mixture is inadmissible too.
- The mixture can be processed only under the air and base temperature over +5°C! The work cannot be done if frost is expected.
- Unused residues should be mixed with water and allow them to harden – they can be disposed of as construction wastes; contaminated containers should be disposed as of hazardous wastes (see the Safety Data Sheet).
- Only completely emptied and clean packaging may be handed over to recycling.

FIRST AID, SAFETY AND HYGIENE REGULATIONS:

See the product Safety Data Sheet.

STORAGE:

The product should be stored in original containers – protected from damage, action of water, and high relative air humidity. If the storage conditions are met, the shelf life will be 12 months. The expiration date is specified on the packaging.

SHIPPING:

The dry mixture is supplied in 25 kg paper bags placed on pallets wrapped in foils.

QUALITY:

- The product quality is regularly checked in the manufacturer's laboratories.
- The production control system is used in manufacture, and a certified quality management system, according to ISO 9001, is applied.
- Continuous surveillance and proving the conformity of products (if necessary) is ensured by TZÚS Prague, OS 1020.
- The use of this product in external environments is specified on the basis of certification, and the issued Construction Technical Certificate.

DISTRIBUTOR:

LASSELSBERGER, s.r.o., Adelova 2549/1, 320 00 Pilsen – Jižní Předměstí

VALIDITY:

Since 1 March 2017

We reserve the right to make any changes that are the result of technical progress. This issue cancels and supersedes all previous issues.

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