

AD 540

C2FE cement adhesive



Fast-setting flowing adhesive with extended open time for the cavity-free gluing of large-format floor tiles in internal and external environments.

DECLARATION:

Improved, fast-setting cement adhesive with extended withering time, type/class C2FE according to EN 12004+A1.

APPLICATION:

For the gluing of large-format ceramic floor tiles with extremely low water absorption – group Bla, with water absorption below 0.5% (such as Kentaur, Taurus).

This adhesive is part of the RAKO SYSTEM system solution – balconies.

Application on regular and difficult to tile horizontal bases – old floor tiles, wood particleboards and cement-bonded particleboards, etc. (areas must be provided with a suitable contact bridge).

For the gluing on bases where dimensional changes occur due to excessive heat stress (such as heated ceramic floors, up to the maximum temperature of +70°C, or on sunny sides of terraces).

This adhesive is also suitable for the gluing of tiles under load of forklift and passenger cars, etc., with a total weight not exceeding 3.5 t).

The adhesive is characterised by simple processing, high stability and strength, rapid strength increase, high adhesion after 6 hours, and frost resistance.

COMPOSITION:

Aggregates, cement, redispersible polymer, and other additives improving processing and end-use properties of the adhesive.

TECHNICAL PARAMETERS:

MANDATORY			
Use in practice:	Internal or external installation of tiles on the floor.		
Initial tensile adhesion max. after 6 hours	min. 0.5 MPa	Reaction to fire	Class A1 _n
High initial tensile adhesion	min. 1.0 MPa	Release of dangerous substances	See the Safety Data Sheet
High tensile adhesion: - after immersion in water - after thermal ageing - after freeze/thaw cycles		Extended withering time (open time): - tensile adhesion strength min. after 30 minutes	min. 0.5 MPa

INFORMATIVE			
Grain size			0-1.2 mm
Amount of mixing water *):	per 1 kg of dry mixture		0.24-0.27 l/kg
	per 1 bag (25 kg)		6-6.8 l
Spreading rate			approx. 1300 kg/m ³
Pot life			max. 60 min
Final walking surface			after 6 hours
Approximate coverage:	floor tiles 250-400 mm	tooth height of 12-16 mm	approx. 6.5-8.7 kg/m ²
	floor tiles 400-600 mm	tooth height of 16-20 mm	approx. 8.7-10.8 kg/m ²

NOTE: The technical parameters are determined under standard conditions (23 ± 2)°C and (50 ± 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

BASE PREPARATION:

The base must be load-bearing, clean, mature, even, solid, free of dust, grease and other impurities, and should not be frozen. In order to reduce the suction capacity of the base and improve adhesion, use **PE 201** or **PE 202** penetration coatings or **PE 204** contact bridge (for instructions for use, refer to the Technical Data Sheet of the used materials). Ceramic tiles can be laid on the bases prepared in this manner after 1 day.

PROCESSING:

Pour the dry mixture evenly into the prescribed amount of water, and mix thoroughly with a high-speed stirrer to produce a smooth, uniform mass. Allow the mixture to stand for approx. 5 minutes, then mix it again shortly. Pour the adhesive on the base and spread it on the surface using the toothed trowel so that the trowel forms an angle of 60-70° with the base. A trowel with larger, semi-circular teeth is recommended.

On the base prepared in this way, tiles are laid until the time declared as open time. If this time is exceeded, the tiles should not be laid on the applied adhesive (need to be removed).

Jointing is carried out after sufficient maturation of the adhesive, not sooner than after 6 hours.

The surface may be fully loaded after 3 days.

Cleaning:

Using a foam trowel, wipe the fresh adhesive off the tiled surface before it hardens, then wash the surface with clean water. Remove the hardened adhesive mechanically. Smaller residues of adhesive can be removed using the **CL 802** special cleaning agent.

CAUTION:

- The general rules specified in ČSN 73 3451 should be followed when designing and laying of ceramic tiles.
- 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 additives. Sifting of the mixture is inadmissible too.
- The mixture can be processed only under the air and base temperature over +5 (max. +30°C - higher temperatures shorten the open time)! 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.
- Continuous surveillance and proving the conformity of products (if necessary) is ensured by TZÚS Prague, OS 1020.
- The production control system is used in manufacture, and a certified quality management system, according to ISO 9001, is applied.

DISTRIBUTOR:

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

VALIDITY:

Since 1 April 2015

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