

### AD 590

#### C2FTES1 cement adhesive



Fast-setting flexible adhesive with extended open time, for the gluing of all types of wall and floor tiles and mosaic in internal and external environments. Due to its composition, it suppresses the appearance of efflorescence.

#### DECLARATION:

Improved, fast-setting, deformable cement adhesive with reduced slip and extended withering time, type/class C2FTES1 according to EN 12004+A1.

#### APPLICATION:

This fast-setting flexible adhesive is intended for gluing of all types of wall and floor tiles in internal and external environments, including materials with extremely low water absorption, such as highly vitrified floor tiles of group Bla, with water absorption below 0.5%.

For the gluing on difficult to tile bases (old floor tiles, concrete prefabricated elements, reinforced concrete, and the like), as well as bases where dimensional changes occur due to excessive heat stress (such as heated ceramic floors, up to the maximum temperature of +70°C).

**Deflection (transverse deformation)  $\geq 2.5$  mm and  $< 5$  mm.**

It can also be used for the gluing on wood, wood particleboards and cement-bonded particleboards, etc., but the surfaces must be provided with a suitable penetration coating or contact bridge.

This product 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). In particular, it is used for the assembly of SDI sound-proofing and insulation panels in the RAKO SYSTEM certified system solution – soundproof ceramic floors ("silent tile").

Highly effective also for the gluing of natural stone panels.

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

#### COMPOSITION:

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

#### TECHNICAL PARAMETERS:

MANDATORY			
Use in practice:	Internal and external installation of tiles on the wall or on the floor		
Initial tensile adhesion strength max. after 6 hours	min. 0.5 MPa	Reaction to fire	Class A1/A1 <sub>n</sub>
High initial tensile adhesion	min. 1.0 MPa	Release of dangerous substances	See the Safety Data Sheet
		Slip	max. 0.5 mm
High tensile adhesion: - after water contact - after heat ageing - after freeze/thaw cycles		Extended withering time (open time): - tensile adhesion strength min. after 30 minutes	min. 0.5 MPa
		Deformable adhesive: - deflection (transverse deformation S1)	$\geq 2.5$ mm and $< 5$ mm

INFORMATIVE		
Grain size		0-0.4 mm
Amount of mixing water:	per 1 kg of dry mixture	0.21-0.23 l/kg

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### TECHNICKÝ LIST /

	per 1 bag (25 kg)	5.25-5.75 l	
Spreading rate		approx. 1200 kg/m <sup>3</sup>	
Pot life		max. 40 min	
Final walking surface		after 4 hours	
Approximate coverage:	wall and floor tiles 100-250 mm	tooth height of 8-10 mm	approx. 4.2-5.2 kg/m <sup>2</sup>
	wall and floor tiles 250-450 mm	tooth height of 10-16 mm	approx. 5.2-8.3 kg/m <sup>2</sup>
	wall and floor tiles over 450 mm	tooth height of 16-22 mm	approx. 8.3-10.4 kg/m <sup>2</sup>

NOTE: The technical parameters are determined under standard conditions (23 ± 2)°C and (50 ± 5)% of relative air humidity.

#### 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. The adhesive is applied on the base using the toothed trowel so that the smoother forms an angle of 60-70° with the base. Mix only such an amount of mixture which you will be able to apply on the base **within 40 minutes** after adding water. The adhesive must not stay in the container for a longer time than indicated, as it may harden.

Lay the tiles so that the laying is completed **within 30 minutes** after applying the adhesive on the base. The mass must not be processed in environments, where the temperature exceeds +25°C.

Fast final walking surface and tile grouting are feasible after 4 hours, and the surface may be fully loaded after 24 hours.

#### 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. +25°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.
- 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.

#### DISTRIBUTOR:

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

#### VALIDITY:

Since 1 March 2015

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