


AD 550

C2TES1 cement adhesive

	<p>Special white flexible adhesive with extended open time, for the gluing of mosaics and small-format tiles, especially on difficult to tile bases in internal and external environments.</p> <p>DECLARATION: Improved, deformable cement adhesive with reduced slip and extended withering time, type/class C2TES1 according to EN 12004+A1.</p>
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APPLICATION:

For the gluing of all types of small-format ceramic wall and floor tiles in internal and external environments, including materials with extremely low water absorption, such as highly vitrified floor tiles of group BIa, with water absorption below 0.5%, (Kentaur, Taurus). This adhesive is part of the RAKO SYSTEM system solution – swimming pools.

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, or on sunny sides of terraces).

Deflection (transverse deformation) ≥ 2.5 mm and < 5 mm.

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). The adhesive is characterised by simple processing, high stability, strength, frost resistance, and flexibility.

COMPOSITION:

Aggregates, white 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		
High initial tensile adhesion	min. 1.0 MPa	Reaction to fire	Class A1/A1 _{fl}
High tensile adhesion: - after immersion in water - after thermal ageing - after freeze/thaw cycles		Release of dangerous substances	See the Safety Data Sheet
		Slip	max. 0.5 mm
		Extended withering time (open time): - tensile adhesion strength min. after 30 minutes	min. 0.5 MPa
		Deformable adhesive: - deflection (transverse deformation S1)	≥ 2.5 mm and < 5 mm

INFORMATIVE			
Grain size			0-0.4 mm
Amount of mixing water:	per 1 kg of dry mixture	0.29-0.31 l/kg	
	per 1 bag (5 kg)	1.4-1.6 l	
	per 1 bag (25 kg)	7.2-7.8 l	
Spreading rate			approx. 1100 kg/m ³
Pot life			approx. 3-4 hours
Approximate coverage:	small mosaic up to 50 mm	tooth height of 3-4 mm	approx. 1.5-2.0 kg/m ²
	wall and floor tiles 100-250 mm	tooth height of 6-8 mm	approx. 3.0-4.0 kg/m ²

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

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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. Tiles are laid only 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).

If the large-format tiles are glued, or tiles are glued on an uneven base, apply the adhesive, using the straight edge of the trowel, in a thin layer also on the back side of the tile.

Jointing is carried out after sufficient maturation of the adhesive – tiled walls are jointed after 1 day, tiled floors after 2-3 days, and this time is extended for tiles non-absorbent surfaces. The surface may be fully loaded after 7 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 5 kg and 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 TZUS Prague, OS 1020.

DISTRIBUTOR:

LASSELSBERGER, s.r.o., Adelova 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.