

TECHNICAL DATA SHEET

AD 510 PLUS

Cementitious adhesive C1TE



Frost resistant modified adhesive for installing all types of wall and floor tiles in the internal environment inclusive of heat-stressed substrates.

DEKLARATION:

Normal setting cementitious adhesive with reduced slip and extended open time, type / class C1TE according to EN 12004.

USE:

Adhesive for bonding low, medium and highly liquid-absorbing ceramic wall and floor tiles (group Alla, Allb, Alll, Blb, Blla, Bllb and Blll) in the internal environment.

For bonding less liquid-absorbing ceramic wall and floor tiles on non-absorbent substrates (for paint coatings isolation and levelling compounds).

Suitable for bonding of tiles for heat-stressed substrates and gypsum plasterboard.

COMPOSITION: Aggregates, cement and additives improving processing and utility properties of the adhesive.

TECHNICAL PARAMETERS:

MANDATORY			
Use in practice:	internal surface treatment of floors and walls		
High initial tensile adhesion strength	min. 0,5 MPa	Reaction to fire	Class A1/A1 _{fl}
High tensile adhesion strength:		Slip	max. 0,5 mm
- after water immersion - after heat ageing - after freeze-thaw cycles		Open time: - tensile adhesion strength min. 0,5 MPa	min. after 30 min

INFORMATIVE			
Grain size			0-0,4 mm
Quantity of mixing water:	per 1 kg of dry mix		0,25-0,27 l/kg
	in a bag (5 kg)		1,25-1,35 l
	in a bag (25 kg)		6,25-6,75 l
Spreading rate			approx. 1150 kg/m ³
Workable life			approx. 3-4 hours
Approximate consumption:	small mosaic up to 50 mm	notched trowel 3-4 mm	approx. 1,6-2,1 kg/m ²
	wall and floor tiles 100-250 mm	notched trowel 6-8 mm	approx. 3,1-4,2 kg/m ²
	floor tiles over 300 mm	notched trowel 8-12 mm	approx. 4,0-6,0 kg/m ²

NOTE: Technical parameters are specified for standard conditions (23 ± 2) °C and (50 ± 5) % relative air humidity.

SUBSTRATE PREPARATION:

The substrate must be load bearing, clean, mature, level, solid, free of dust, fat and other impurities and it must not be frozen. By reason of to reduce the absorptivity of the substrate and improve adhesion, to apply of primer coatings **PE 201** or **PE 202** or contact bridge **PE 204** (see technical data using appropriate materials). After desiccation of primer the tiling is possible (approx. after 1 day).

PROCESSING:

Pour the dry mixture evenly into the prescribed amount of water and mix thoroughly with a high-speed mixer in a suitable container in order to create a smooth and compact material. The mixture let to stand for a period of approx. 5 minutes and shortly mix again. Apply the adhesive on a base using the toothed smoother in such a way that the smoother forms an angle of 60–70° with the base. Lay the tiles on a surface prepared in this way until the time specified as the open time. If this time is exceeded, the tiles should not be laid on this adhesive (the adhesive must be removed). When gluing of large-format floor tiles, or gluing on uneven surfaces, apply the adhesive in a thin layer also on back sides of tiles, using the straight edge of a smoother. Grouting is to be done after a sufficient maturity of adhesive – wall tiles are to be jointed not sooner than after 1 day, floor tiles after 2-3 days, or longer time if the wall tiles are laid on non-absorbent bases. The full load is possible after 7 days.

Cleaning: The fresh adhesive should be removed from the tiles before setting, using a foam rubber, and wash with clean water. The hardened adhesive should be mechanically removed. Thinner layers can be removed using the special cleaning agents **CL 802**.

WARNING:

- Designing and laying ceramic tiling is governed by general rules according to ČSN 73 3451.
- Drinkable water or water according to EN 1008 should be used for the mixture.
- No additional binders, aggregates or other substances can be added and the mixture must not be screened.
- The mixture can only be processed at air and substrate temperature of over +5 °C (max. +30 °C, higher temperatures can to decrease term of the open time)! The work cannot be carried out if frost is expected.
- Mix the unused remaining of material with water and let it harden – can be disposed of as construction waste, contaminated packages dispose of as hazardous waste (see safety data sheet).
- Only completely empty and clean packages can be disposed for recycling.

FIRST AID: In case of health problems or when in doubt inform your physician. In case of inhalation leave the contaminated area and proceed according to symptoms. In case of contact with the skin, remove contaminated clothes and rinse skin with water and soap. Treat irritated parts of skin with a suitable regeneration cream. In case of contact with eyes, rinse eyes with eyelids open with clean water for 15 minutes, then seek medical help. In case of ingestion, drink a glass of water. Do not induce vomiting, seek medical help. If the symptoms of affection (irritation) caused by contact with the product are not eliminated by first aid, seek medical help.

SAFETY AND HYGIENE REGULATIONS: Warning symbol: **Xi irritant**

R 36/37/38	Irritating to eyes, respiratory system and skin.
R 43	May cause sensitization by skin contact.
S 2	Keep out of the reach of children.
S 22	Do not breathe dust.
S 24	Avoid contact with skin.
S 25	Avoid contact with eyes.
S 26	In case of contact with eyes, rinse immediately with plenty of water and seek medical advice.
S 36/37/39	Wear suitable protective clothing, gloves and eyeface protection.
S 46	If swallowed, seek medical advice immediately and show this container or label.

STORAGE: Store the product in its original packages in a dry place – protect against damage, exposure to water and high relative air humidity. If the specified conditions are observed, the shelf-life is 12 months from the date printed on the packaging.

SHIPPING: The dry mixture is delivered in 5 kg and 25 kg paper bags on pallets covered with foil.

QUALITY:

- The quality is checked continuously in the manufacturer's laboratories.
- Attestation of conformity of the products is secured by TZÚS Praha, NB 1020 (Notified Body).
- Producer operated factory production control (FPC) and is applied certified quality management system according to ISO 9001.

SUPPLIER: LB Cemix, s.r.o., 373 12 Borovany, Tovární 36

VALIDITY: As of 1st. January 2012

We reserve the right to perform changes based on technical progress. This issue supersedes all previous issues.