

TECHNICAL DATA SHEET

ALTAKOLL C2TES1 GREY/WHITE

DESCRIPTION

High-quality cement-based tile adhesive, formulated with selected carbonate and marble sands, synthetic resins and special additives that provide improved bond strength, high flexibility and consistent performance in professional applications. Thanks to its advanced formulation, the product offers excellent workability, easy application, resistance to vertical slip and extended working time, enabling more accurate tile fixing and easier adjustment during application.

It is characterized by high moisture resistance, uniform strength after drying and improved flexibility, making it suitable for surfaces requiring greater durability and long-term application reliability. It can be applied in layers up to 15 mm thick. Classified as a C2TES1 adhesive according to EN 12004: a cement-based adhesive with improved bond strength, slip resistance, extended open time and S1-class deformability/flexibility.

BENEFITS AND CHARACTERISTICS

1. Excellent adhesion
2. Very good workability and easy application
3. No vertical slip
4. Extended working time
5. S1 flexibility / deformability
6. High moisture resistance
7. Suitable for large-format tiles
8. For indoor and outdoor applications
9. Recommended for façades, terraces, balconies and areas with central heating
10. Application thickness up to 15 mm

FIELD OF APPLICATION

Suitable for bonding ceramic tiles, porcelain stoneware, clinker tiles, marble, natural stone tiles, mosaics, as well as low-absorption and thick tiles onto stable cement-based substrates.

The product is recommended for professional applications in bathrooms, balconies, terraces, facades, and areas exposed to moisture, as well as surfaces with central heating. Thanks to its improved adhesion, S1 flexibility, extended working time, and resistance to vertical slipping, it ensures precise, durable, and secure installation on vertical and demanding surfaces.

It can be used on stable cement-based substrates, such as cementitious mortars, leveling layers, and properly cured floors. It is suitable for low-absorption tiles, thick tiles, and large-format tiles with dimensions ranging from 5 cm to 120 cm, depending on the substrate and application conditions.

MIXTURE PREPARATION

Pour 7–8 liters of clean water into a clean container and gradually add 25 kg of ALTAKOLL, mixing with a low-speed electric mixer until a homogeneous, creamy, and lump-free mixture is obtained.

Allow the mixture to rest for approximately 10 minutes so that the additives can fully activate, then mix again before use.

The prepared mixture remains workable for approximately 2–3 hours under normal temperature conditions, around 20°C. During application, it is recommended to remix the material occasionally without adding water to maintain optimal consistency and performance.



TECHNICAL DATA SHEET**ALTAKOLL C2TES1 GREY/WHITE****SUBSTRATE PREPARATION**

Cement-based substrates must be stable, resistant, even, and free from oils, dirt, paint residues, and other contaminants. They must also have completed the required curing period.

Traditional cement-based floors with normal hardening times should be allowed to cure for at least 28 days, while substrates with traditional plaster should dry for at least 14 days.

Significant unevenness or large cracks must be repaired beforehand. All types of substrates must be mechanically cleaned before applying the product.

Before application, the substrate surface should be lightly sprayed with water to ensure the best possible adhesion and optimal working time.

APPLICATION

Initially, it is recommended to spread the product using the flat side of the trowel to achieve the most uniform distribution, followed by the notched side. Application should be carried out using a suitable trowel according to the type of tile being installed. Tiles should be positioned by applying slight pressure, ensuring that the entire tile surface is covered with adhesive. Under normal atmospheric conditions, the product has an open time of 35 minutes at a temperature of 23°C. Atmospheric conditions may affect the drying time of the product. Care must be taken to prevent the adhesive from forming a surface film. If a film forms, it is necessary to pass the trowel over the adhesive again. Installing tiles with tightly closed joints is not recommended. Tiles should be installed with joints appropriate to their dimensions. A 5 mm gap must be maintained at junctions with vertical walls.

TECHNICAL DATA

Appearance:	Powder
Packaging:	25 kg paper bags on 1350 kg pallets
Color:	White / Grey
Consumption:	2–3 kg/m ²
Consumption for large-format tiles:	4–5 kg/m ²
Storage:	Store in dry places on wooden pallets
Shelf life:	12 months from the production date
Bulk density:	1.5 – 1.6 gr/cm ³
Reaction to fire:	Class F
Mixing water:	7–8 liters per 25 kg
pH of the mixture:	13
Application temperature:	+5°C to +35°C
Adjustment time:	35 min
Wall grouting:	After 8–12 hours
Floor grouting:	After 24 hours

TECHNICAL DATA SHEET**ALTAKOLL C2TES1 GREY/WHITE****TECHNICAL DATA**

Adhesive strength after 28 days: $\geq 1 \text{ N/mm}^2$

Adhesive strength after water immersion: $\geq 1 \text{ N/mm}^2$

Adhesive strength after heat exposure: $\geq 1 \text{ N/mm}^2$

Adhesive strength after freeze-thaw cycles: $\geq 1 \text{ N/mm}^2$

Adhesive strength after 30 minutes: $\geq 0.5 \text{ N/mm}^2$

Walkable: Pas 24 orësh

Slip resistance: $\leq 0.5 \text{ mm}$