

TECHNICAL DATA SHEET

FLEXKOLL C2TE GREY / WHITE

DESCRIPTION

Cement-based tile adhesive with improved adhesion strength, slip resistance and extended open time. Thanks to selected sands with defined granulometry, special additives and flexible polymers, FLEXKOLL is suitable for both interior and exterior environments. It provides excellent adhesion on cement-based substrates, easy application and resistance to weather conditions.



CLASSIFICATION ACCORDING TO STANDARD

Cement-based tile adhesive (C), with improved adhesion strength (2), slip-resistant (T) and extended open time (E). Classified as C2TE adhesive according to EN 12004.

FLEXKOLL has very low VOC emissions, contributing to environmental protection, health and applicator safety, according to EC1 Plus requirements.

BENEFITS AND CHARACTERISTICS

1. Excellent adhesion
2. Very good workability and easy application
3. No vertical slip
4. Extended working time
5. Suitable flexibility for areas exposed to vibration
6. High resistance to moisture
7. Suitable for tiles up to 120 cm format
8. Suitable for interior and exterior use
9. Recommended for façades, terraces, balconies and areas with underfloor heating
10. Application thickness up to 15 mm

FIELD OF APPLICATION

Suitable for bonding ceramic tiles, porcelain stoneware, clinker, terracotta, marble tiles and tiles with low absorption. For bonding on substrates with a certain degree of movement, such as balconies, bathrooms, floors and walls in interior and exterior areas where moisture is present. Suitable for floors with high traffic, such as schools and hospitals, as well as floors with underfloor heating. Suitable for commercial and industrial environments. Recommended for bonding medium and large-format tiles, from 5 cm to 120 cm.

PREPARATION OF THE MIXTURE

Mix 6.5–7 liters of clean water with 25 kg of FLEXKOLL. Mix the material with an electric mixer until a homogeneous, lump-free mixture is obtained. Leave the mixture to rest for 10 minutes, then mix again before use. The pot life of the mixture is 2–3 hours under normal temperature conditions of 20°C.

SUBSTRATE PREPARATION

Cement-based substrates must be stable, resistant and regular, free from oils, dirt, paint residues and must have completed the required curing time. Traditional cement-based floors with normal hardening time should have a curing period of at least 28 days. Traditional plaster substrates should dry for at least 14 days. Large uneven areas or major cracks must be repaired beforehand. All types of substrates must be cleaned mechanically before applying the product. Before application, the surface of the substrate should be lightly wetted with water so that the product can achieve better adhesion and optimal working time.

TECHNICAL DATA SHEET**FLEXKOLL C2TE GREY / WHITE****APPLICATION**

Initially, it is recommended to spread the product using the flat side of the trowel to ensure the most uniform distribution possible, and then with the notched side. Application should be carried out using a suitable trowel, depending on the type of tile being installed. Tiles should be placed by applying slight pressure, ensuring that the entire surface of the tile is covered with adhesive. The open time of the product under normal atmospheric conditions is 35 minutes at 20°C. Atmospheric conditions may affect the drying time of the product. Tiles must be placed onto the fresh adhesive by applying sufficient pressure to ensure full contact. For large-format tiles, exterior surfaces, façades, heavy-load floors or areas exposed to water, it is recommended to also apply adhesive on the back of the tile to ensure maximum coverage. Care must be taken to ensure that the adhesive does not form a film on the surface. If this happens, it is necessary to pass the trowel over the adhesive once again. It is not recommended to install tiles with closed joints. Tiles should be installed in a way that is suitable for their dimensions.

ATTENTION!

Low and high temperatures may change the working characteristics of the product, slowing down or accelerating its drying time. For very large-format tiles, apply the adhesive using the double-spreading method, both on the tile and on the substrate. Protect the substrate for at least 24 hours after adhesive application from heavy rain, frost and strong sunlight. For large-format tiles, grouting should be done 4–5 days after bonding, only if waterproofing has been applied.

TECHNICAL DATA SHEET**FLEXKOLL C2TE GREY / WHITE****TECHNICAL DATA**

Appearance:	Powder
Packaging:	25 kg paper bag, on 1350 kg pallets
Color:	White / Grey
Consumption:	3–5 kg/m ²
Storage:	Store in dry places, on wooden pallets
Shelf life:	12 months from production date
Bulk density:	1.5–1.6 g/cm ³
Reaction to fire:	Class F
Mixing water:	6.5–7 liters of water per 25 kg
pH of mixture:	13
Application temperature:	+5°C to +35°C
Correction time:	35 min
Grouting on walls:	After 8 to 12 hours
Grouting on floors:	After 24 hours
Walkable:	After 24 hours
BS* after 28 days:	≥ 1 N/mm ²
BS* after water immersion:	≥ 1 N/mm ²
BS* after heat reaction:	≥ 1 N/mm ²
BS* after freeze-thaw cycles:	≥ 1 N/mm ²
BS* after 30 minutes:	≥ 0.5 N/mm ²
Slip resistance:	≤ 0.5 N/mm ²