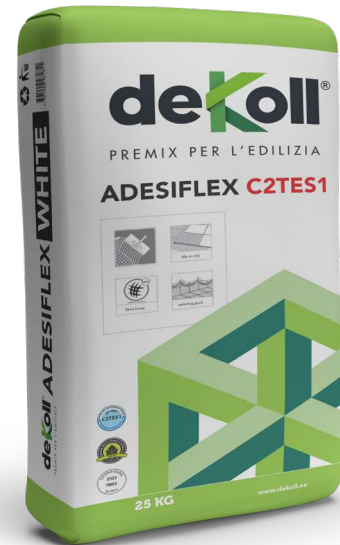


TECHNICAL DATA SHEET

ADESIFLEX C2TES1

DESCRIPTION

ADESIFLEX is a premium-quality cement-based tile adhesive with superior performance, no vertical slip, extended working time and high flexibility. It is formulated with high-quality marble and quartz sands with selected particle size distribution, a high percentage of synthetic polymers and specially modified additives. The advanced granulometric distribution technology used in the mix, together with the special components, gives the product excellent flexibility and workability, making it ideal for bonding all types of tiles. When mixed with water, it forms a creamy, homogeneous and highly thixotropic mixture that spreads easily with a notched trowel and ensures excellent coverage of the back of the tile.



CLASSIFICATION ACCORDING TO THE STANDARD

Cement-based tile adhesive (C), with improved adhesion strength (2), reduced slip (T), extended open time (E) and deformability / flexibility (S1). Classified as C2TES1 according to EN 12004. ADESIFLEX has very low VOC emissions (volatile organic compounds), contributing to environmental protection as well as the health and safety of applicators, in accordance with EC1 Plus requirements.

CHARACTERISTICS

1. Excellent adhesion and improved performance on the most commonly used construction substrates.
2. Very good workability, easy spreading and full contact with the back of the tile.
3. No vertical slip, even when installing tiles on walls.
4. Extended working and adjustment time for more accurate application.
5. S1 flexibility / deformability, suitable for more demanding applications.
6. High resistance to moisture, weather conditions and normal temperature variations.
7. Suitable for large-format tiles, 5–200 cm.
8. Can be applied in thicknesses of up to 15 mm.

FIELD OF APPLICATION

Suitable for bonding ceramic tiles, marble, stone tiles, mosaics, glass blocks and thick tiles. Provides very good adhesion on cement-based substrates, for floors and walls, in indoor and outdoor environments with high levels of moisture. Recommended for façades, terraces, underfloor heating areas, environments subject to vibrations and continuous loads, as well as for tile-on-tile installation, provided that the existing tiles are stable and firmly bonded. Also suitable for industrial areas, uneven or unstable substrates due to its high elasticity, and for swimming pools. For swimming pools, tanks, exposed terraces or areas subject to high water exposure, the product must be used as part of an appropriate waterproofing and application system, according to the technical project.

MIX PREPARATION

Mix 7–7.5 litres of clean water with 25 kg of ADESIFLEX.

Mix using an electric mixer until a smooth, homogeneous and lump-free mixture is obtained. Allow the mixture to rest for 10 minutes, then mix again before use.

The workable life of the mixture is 2–3 hours under normal temperature conditions at 20°C.

TECHNICAL DATA SHEET**ADESIFLEX C2TES1****SUBSTRATE PREPARATION**

Cement-based substrates must be stable, resistant and even, free from oil, dirt and paint residues, and must have reached the required curing time. Traditional cement-based screeds with normal setting time must be cured for at least 28 days, while traditional plastered substrates must be allowed to dry for at least 14 days. Large irregularities or cracks must be repaired beforehand. All substrates must be mechanically cleaned before product application and dampened with water.

APPLICATION

First, it is recommended to spread the product using the flat side of the trowel to obtain an even distribution, then use 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 to ensure full adhesive coverage over the entire back surface. The product open time under normal atmospheric conditions is 35 minutes at 23°C. Atmospheric conditions may affect the drying time. Tiles must be installed onto fresh adhesive, applying sufficient pressure to ensure full contact. For large-format tiles, exterior surfaces, façades, heavily loaded floors or areas exposed to water, it is recommended to also apply adhesive to the back of the tile to achieve maximum coverage. Care must be taken to ensure that the adhesive does not form a surface skin. If this occurs, the adhesive should be reworked with the trowel. Butt-joint tile installation is not recommended. The joint width must be appropriate for the tile dimensions.

CAUTION

1. Both low and high temperatures may alter the working characteristics of the product by slowing down or accelerating the drying process.
2. For very large tile formats, apply adhesive using the double-buttering method, both on the substrate and on the back of the tile.
3. Protect the substrate for at least 24 hours after adhesive application from heavy rain, frost and strong sunlight.
4. For large-format tiles, grouting should be carried out 3–5 days after installation, provided that waterproofing has been applied.
5. Do not apply on unstable, uncured substrates or surfaces contaminated with dust, oil, grease or residues that may reduce adhesion.
6. Do not use directly on wood, metal, PVC, rubber, linoleum or highly flexible substrates without a suitable preparation system.
7. Do not exceed the recommended water ratio or maximum application thickness.
8. For special applications, high façades, swimming pools, tanks or heavily loaded surfaces, technical verification and a complete application system are recommended.

TECHNICAL DATA SHEET**ADESIFLEX C2TES1****TECHNICAL DATA**

Appearance:	Powder
Packaging:	25 kg paper bag on 1,350 kg pallets
Colour:	White
Consumption for small formats:	2-3 kg/m ²
Consumption for large formats:	4-5 kg/m ²
Storage:	Store in dry areas on wooden pallets
Shelf Life:	12 months from the date of production
Deformability:	S1
Reaction to Fire:	Class F
Mixing Water:	7-7.5 litres per 25 kg
pH of Mixture:	>12
Bulk Density:	1.65 - 1.75 gr/cm ³
Application Temperature:	+5°C to +35°C
Adjustment Time:	35-40 min
Grouting on Walls:	After 8-12 hours
Grouting on Floors:	After 24 hours
Walkable After:	24 hours
Adhesion Strength after 28 Days:	≥2 N/mm ²
Adhesion Strength after Water Immersion:	≥1.5 N/mm ²
Adhesion Strength after Heat Exposure:	≥2 N/mm ²
Adhesion Strength after Freeze-Thaw Cycles:	≥1.5 N/mm ²
Adhesion Strength after 30 min:	≥0,5 N/mm ²
Slip:	≤0,5 mm