

SMARTCARE TILE ADHESIVE ULTRAFLEX 250



High Performance, Deformable, Multi Purpose Tile Adhesive for All Ceramic Coverings, Glass Mosaic, Porcelain and Non-Moisture Sensitive Natural Stones Tile

DESCRIPTION AND USES

- A powder mixture specially designed with elastifying polymer and special types of fibers.
- Waterproof and resistant to temperatures from -30°C to +80°C, multi-purpose use indoors and out, on walls and floors.
- Non sag, no need for battens and spacers, therefore easy and quick application.
- Flexible, compensates changes in temperature and elongations of the substrate.
- **Usage:**
- Suitable for Indoor and Outdoor use for walls and floors
- For laying ceramic tiles, porcelain mosaic, brick tiles, clinker bricks, fully vitrified tiles and non-moisture sensitive natural stone tiles.
- In swimming pool, pool surrounds, wet rooms and cold storage depots.
- On cement screeds, ground anhydrite or gypsum based floated screeds, precast concrete elements, aerated concrete, heated screeds, plasterboards, gypsum fiberboards, dry screeds, insulation boards, plaster slabs and plaster, masonry, old ceramic tiles and even, sound wooden substrates such as wooden chipboards, OSB boards etc., cork rubber mats and on existing wall and floor tiles.
- For laying tiles on the supporting elements, PCI Pecidur made of high resistance foam on impact sound insulation and isolation board PCI Polysilent as well as the isolating fabric underlay PCI Pecilastic.
- **Standards:**
- Compliance to Standard: **TILE ADHESIVE ULTRAFLEX 250** meets the classification requirements C2TES1 according to EN 12004.

PRODUCT PROPERTIES

Initial tensile adhesion strength after 28 days	≥ 1 N/mm ²
Tensile adhesion strength after water immersion	≥ 1 N/mm ²
Tensile adhesion strength after heat ageing	≥ 1 N/mm ²
Tensile adhesion strength after freeze – thaw cycles	≥ 1 N/mm ²
Open time (E)	≥ 30 min
Vertical slip (T)	≤ 0.5 mm
Transverse Deformation	2.5 mm : 5 mm

RECOMMENDED SYSTEM

Gauging water	1 kg powder – approx. 0.26 – 0.27 lt 25 kg powder – approx. 6.5 – 6.75 lt
Slake Time	Approx. 3 minutes
Working Time	Approx. 1 hour (at 23°C – might vary according to temperature)
Open Time	Approx. 30 minutes (at 23°C – might vary according to temperature)
Curing Time (on slightly absorbent substrate)	Walkable after – approx. 24 hours Grout able after – approx. 24 hours Able to bear weight after – Approx 7 days

INSTRUCTIONS FOR USE

1. Surface preparation:

- All surfaces must be clean, dimensionally stable, sound and free from all traces of oil, grease, mold release agent and curing compound.
- It should be ensured that tiles are dry, and free of contaminants that could impair adhesion.
- Concrete, screeds, renders, and blockwork should be cured sufficiently that all shrinkage movement has occurred.
- Cement screed – 28 days.
- Newly applied cement screeds must not have a residual moisture content over 4%, anhydrite or gypsum based screeds not more than 0.5% (measure with a CM meter).
- Concrete – 3 months
- The substrate must be sound, clean and able to bear weight.
- Oil stains, bond-inhibiting surfaces and other residues must be thoroughly removed.
- The substrate must be plumb and flush in accordance with BS 5385.
- Plaster substrates must be approved by the plaster manufacturer for fixing ceramic tiles and must be suitable for the intended area of use.

2. MIXING:

- Place gauging water in a clean mixing vessel. Add powder and mix the mortar with a suitable paddle connected to an electric drill until a plastic, lump free consistency is achieved.
- Allow a slake time of approx. 3 mins for **TILE ADHESIVE ULTRAFLEX 250**, then remix briefly.

3. Laying Tiles:

- Apply a thin scratch coat to the substrate with the smooth edge of the trowel Comb mortar onto the fresh scratch coat with a notched trowel. Apply the adhesive bed in one direction. If possible, apply only as much

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Our recommendations are based on extensive research as well as practical experience. However, as the product is often used under conditions beyond our control, we cannot guarantee anything but the quality of the product itself. We reserve the right to change the given data without notice. Please note that this data sheet supersedes any previous prints. For any additional information, please consult our technical office.

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mortar as can be covered with tiles during the open time. Ensure open time by touching the mortar suitably.

- Place tiles in the adhesive bed with a twist, slide motion, and adjust to correct position.

PRODUCT PROPERTIES

Required Notch Size	Consumption rate For 1 m ² (Powder)*	Covering rate for 25 Kg bag*
4 mm	1.6 kg	15.5 m ²
6 mm	2.2 kg	11.3 m ²
8 mm	2.7 kg	9.2 m ²
10 mm	3.4 kg	7.3 m ²
Solid Bed Thickness	Thickness of adhesive bed: Up-to max 10 mm	Consumption rate*: 3. Kg/m ² per 1mm

- The consumption rates of dry powder are based on lab trials and might vary Gauging water according to surface regularity

APPLICATION TOOLS



PACKAGING

25 KG Standard colors – White and Light Grey.

STORAGE AND SHELF LIFE

- Up - to 12 months if stored according to manufacturer's instruction in unopened containers. Store out of direct sunlight, clear of the ground, on pallets protected from rainfall.
- Avoid excessive compaction.
- In places where high heat and humidity are present, special precautions must be taken.
- Store product in a covered, well ventilated warehouse and avoid excessive heat conditions.
- Storage in high heat, high humidity condition may reduce shelf life by around 30%.
- Follow First in First Out strictly.
- Don't store within one meter of roofing of the ware house or storage building.

SAFETY PRECAUTIONS

- Do not apply at temperature below +5°C and above +40°C. It is strictly recommended to do not apply at extreme hot and windy condition.
- The scratch coat must have cured prior to the installation of tiles on inside walls on existing ceramic coverings not being exposed to wetness.
- TILE ADHESIVE ULTRAFLEX 250** can be applied for approx. 1 hour. Basis atmospheric temperature condition it can vary. The time will increase at high temperature and vice versa in case of low temperature.
- Substrate made of precast concrete elements or in-situ concrete must be at least 3 months old
- Never add water or dry powder to reconstitute **TILE ADHESIVE ULTRAFLEX 250** mix which has already begun to set.
- Open bags must be closed immediately after use.

ADDITIONAL INFORMATION

- Alternative system may be specified, depending on area of use. Please refer to technical office for application advice.
- Service Temperature: -30°C to +100°C. Application Temperature: +5°C to +35°C.