

TERAFLEX® SUPER FLEX

IMPROVED FLEXIBLE ADHESIVE

elastic adhesive with increased strength for bonding of ceramic tiles and granite tile floors outdoors and bonding of heavy loaded bases indoors



Product description

TERAFLEX® SUPER FLEX is an elastic adhesive for applying granite tile floors and other large size floor tiles (up to 60x60 cm) in heavy-loaded premises. Its excellent workability allows very good covering of the contact surfaces, which guarantees perfect bonding. It is suitable for bonding ceramics over floor heating and hydro insulated surfaces.

The adhesive is moisture and frost resistant and is suitable for laying ceramic linings both indoors and out on cement bases – balconies, terraces, roofs and other open areas.

It is recommended when bonding ceramic linings in permanently wet premises (bathrooms, kitchens, laundry rooms and others) in combination with the flexible waterproofing system HYDRO and SPLIT PROTECTION².



Properties and scope of use

Properties:

- _____ increased adhesive strength
- _____ very high hydro and frost resistance
- _____ long operating time
- _____ very good workability

For application on:

- _____ large size floor tiles (up to 60x60 cm)
- _____ ceramic and granite tiles
- _____ marble, gneiss, onyx and limestone linings

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For application when:

linings in constantly wet premises
normally loaded linings outdoors
floors in heavy load premises
floors with built-in heating

Packaging and indicative consumption

Packaging:

| <i>package</i> | <i>capacity</i> | <i>pallet</i> |
|----------------|-----------------|-------------------|
| paper bag | 25 kg | 40 pcs (1000 kg) |
| paper bag | 10 kg | 100 pcs (1000 kg) |
| paper bag | 5 kg | 200 pcs (1000 kg) |

Indicative consumption:

| | |
|------------------------|-----------------------|
| notch trowel: 4x4 mm | 2.5 kg/m ² |
| notch trowel: 6x6 mm | 3.5 kg/m ² |
| notch trowel: 8x8 mm | 4.0 kg/m ² |
| notch trowel: 10x10 mm | 5.0 kg/m ² |

The consumption of the adhesive depends on the size of the tiles and the depth of the teeth of the trowel.

Composition

Homogenous cement based powder, modified with high quality polymer resinous and cellulose additives.

Expiration date and storage

Store and transport in tightly sealed original packaging in dry environment (best on pallets). Keep away from moisture!

The product is good for use 12 months after production date of an unopened original packaging.

Instructions for use

- thickness of the application: 2 -10 mm
- color: grey
- mixing with water: 6.0 - 6.5 l (for 25 kg paper bag)

Base Preparation

TERAFLEX® SUPER FLEX sticks to all mineral bases that are strong, supporting and do not contain



separating substances (grease, bitumen, dust). The base should be clean, dry, and stable, without cracks and leveled in advance. All parts and layers with weak mechanical stability and flimsy areas should be removed from it beforehand. Gaps up to 5 mm can be leveled with TERAFLIX® SUPER FLEX, and those deeper than 5 mm with the help of TERAFLIX® MASTER FIX one day prior bonding of the lining. When working on areas with large length, expanding joints with 1,5 cm width are necessary to be cut out of the base (at every 4-5 m) and then filled up with PU sealant.

All highly absorbent bases (anhydrite screeds, lightweight concrete blocks, gypsum boards, gypsum-based mortars and others) should be primed with POROGRUND® POROUS BASE PRIMER at least 4-5 hours prior adhesion. Bases with smooth and fine polished surfaces with min water absorption (mosaic, old tiles, fiberglass and others) should be primed with TERACONTACT® CONTACT BONDING PRIMER. Priming is not necessary when working with gypsum cardboards, cement plasters and mortars (applied at least 1 month prior) and concrete (poured at least 3 months prior).

When lining wet premises (bathrooms, toilets, locker rooms, laundry rooms and others), terraces, balconies, roofs, wall bases, basements and other areas subject to moisture conditions, it is mandatory that HYDRO and SPLIT PROTECTION² system for hydro insulation under ceramic linings is applied prior bonding.

Mixture preparation

In a clean stainless steel container pour around 6,25 l clean water without additives and gradually add the bag's content (25 kg) to it. The mixture should be stirred with electric drill until reaching homogenous mass without lumps. If needed add water or dry mixture for attaining necessary density. Leave to mature around 10 min, while all additives are completely dissolved and then stir again. The ready-made mixture is all set for work and maintains its properties for around 2 hours at 20-25°C.

It is not allowed for cement, sand and other materials to be added to the hydro-insulation mixture for it causes extreme deterioration of its qualities.

Application

Indoors the adhesive should be applied with a toothed board knife on a thin layer over the base. Within the open time – for 25-30 min (after that period of time the adhesive forms surface crust (skin) the applied on the base adhesive does not dry and allows for adjustments of the already laid tiles. When bonding linings outdoors, the adhesive should be applied not only on the base but on the back of the tile as well, which guarantees 100% contact surface. The excess adhesive should be cleaned with water and the hardened areas should be mechanically scraped out.

The choice of the notch trowel with which the adhesive is applied and the size of its notches depends on the size of the tile, so that the contact surface between the adhesive and the tile should be at least 70 % when laying coverings indoors and 95% outdoors. Ceramic linings should not be dipped in water.

Grouting is possible in at least 24 hours. When bonding “without joints” large-scale tiles at low temperatures or high humidity, grouting may proceed in at least 48 hours.

Attention!

Tile bonding should be performed in dry weather at temperature of the base and environment from +5 °C to +30 °C and air humidity less than 80%.

The time for complete hardening of the adhesive depends on the weather conditions (temperature and humidity), but not less than 72 hours and may last up to 14 days.



When applying wall linings with thickness >1 cm it is recommended additional anchoring with brackets!

Hazards description

The product contains cement and may cause allergic reactions. When using it you must meet production hygiene requirements.

Work in well-ventilated rooms or outdoors. Avoid contact with eyes and skin. Keep out of reach of children.

For more information, see the Product safety data sheet.

Classification

Complies with the requirements of European and Bulgarian standards and measures up to:

| European Standard | Class | Testing protocols |
|-------------------|-------|--|
| EN 12004 | C2TE | № PIT-EC-010-4/10.12/2007 № 1107/11.12.2007 |

Technical data

Testing protocols are issued by Notified Body (NB 1950) for compliance evaluation with Research Institute of Building Materials NIISM Ltd., Sofia.

| Parameter | Measure | Testing method | Testing result |
|--|-------------------|----------------|-------------------------------------|
| High initial tensile adhesion strength after 28 days | N/mm ² | EN 1348 | ≥ 1 |
| High tensile adhesion strength after water immersion | N/mm ² | EN 1348 | ≥ 1 |
| High tensile adhesion strength after heat ageing | N/mm ² | EN 1348 | ≥ 1 |
| High tensile adhesion strength after 25 freeze-thaw cycles | N/mm ² | EN 1348 | ≥ 1 |
| Extended open time: tensile adhesion strength | N/mm ² | EN 1346 | ≥ 0,5 after not less than 30 min |
| Slip | mm | EN 1308 | ≤ 0,5 |
| Reaction to fire | - | EN 13501-1 | class A1 |

The information contained in the current document is based on our knowledge and recent technical achievements and experience that we have at the time of the last version. The technical recommendations concerning application that we offer in order to facilitate buyers and those working with our products are non-binding and are neither grounds for legal contract relations, nor for additional obligations resulting from the purchase contract. They do not dispense buyers from the necessity to verify products' application according to the instructions for every specific use. We as manufacturers guarantee the quality of the product, but cannot influence the circumstances and methods of its use. Application of the product should be performed by qualified personnel.