



Flexible cement-based grey adhesive, class C2TE S1

DESCRIPTION

High performance flexible gray cementitious adhesive (S1) (C2) with no vertical slip (T less than 0.5mm). Extended open time (E) for medium-sized ceramic and porcelain stoneware tiles (300mm x 300mm), stone, terracotta and klinker. Only for flooring for large, rectangular tiles with sides > 60 cm and low thickness (< 1 cm) following the application indications declared in the UNI 11493 standard. Suitable for gluing ceramic and stoneware even in large formats on standard floors and for floors warm up. The TVOC value in class A+ contributes to compliance with the requirements of the CAM, LEED and BREEAM protocols. For internal and external use. Restricted to professional users.

Alkali resistance: good

Solvent resistance: Excellent/good

Oil resistance: Excellent/good

Resistance to vegetable oils: poor

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Solvent resistance: Excellent/good

Oil resistance: Excellent/good

Resistance to vegetable oils: poor

MAIN PROPERTIES

- Excellent for vertical gluing
- Excellent for cement-based waterproofing surfaces

TECHNICAL DATA

Volatile organic compounds (VOC)	Not covered by Directive 2004/42/CE.
Classification (UNI 8681 / UNI 8682)	Improved (2) cement-based adhesive (C) resistant to slippage (T) and with extended open time (E) deformable (S1)
Granulometry (EN 13300 / EN 1062)	0,5mm
Tensile adhesion strength after thermal aging (EN 1348:2007)	$\geq 2,5 \text{ N/mm}^2$
Tensile adhesion strenght after water immersion EN 1348:2007	$\geq 1,2 \text{ N/mm}^2$
Tensile adhesion strength after freezing (EN 1348:2007)	$\geq 1,4 \text{ N/mm}^2$
Apparent bulk volume	$1400 \pm 50 \text{ g/l}$
Bulk volume in paste	$1550 \pm 50 \text{ g/l}$
Mixing Ratio	Grey: 25-27% with water - 6.25-6.75 Litres per 25Kg package
Maximum application thickness	5 - 10 mm one coat
Drying time	walkable after 24 -48 hours. Commissioning after 14 days. Swimming pools can be filled after 21 days. Drying is strongly dependent on environmental conditions.
Open time (EN 1346)	30 min
Reaction to fire (EN 13501-1)	Class A
Initial tensile traction (EN 1348:2007)	$\geq 2,5 \text{ N/mm}^2$

CHARACTERISTICS

Pot-life of mixture	About 8 hours
Coverage	Small Mosaics 2 kg/m ² - Standard sizes 2.5-3.5 kg/m ² - ; Large formats 4.5-5 kg/m ²
Colour range	White, Grey
Dilution	Water

APPLICATION

Notes:

Do not apply on surfaces that are in direct sunlight, frozen or very hot. Do not apply when it is very windy or when there is fog or rain. The conditions must last at least 2 days after application.

Suitable Substrates:

Indoor and outdoor.

Suitable for cement-based plasters, cement lime mortars, cement screeds, heating floors, rough, absorbent concrete; cement-based waterproofing membranes made with Towflex.

When applied on gypsum plasters or anhydrite screeds, first apply Acrilica 100.

Suitable for gluing large, low-absorption floor and wall tiles of all types (stoneware, porcelain stoneware, terracotta, marble, stone, etc.). Suitable for installing ceramics on existing stone material.

Suitable for laying floors subject to heavy traffic.

Do not apply on autoclaved cellular concrete, wood, metal, vinyl flooring, linoleum, rubber.

Ambient Conditions:

min +5°C max +35°C

Operating temperature: -30°C / 90°C

Preparation of the Substrate:

The substrates must be flat, provide good mechanical resistance and be free of friable areas, grease, wax and oils. On gypsum-based substrates, apply Acrilica 100 6 hours prior to application.

Type of Equipment:

serrated spatula, mason's trowel, low speed mixer

Application Procedure:

Mix GLUEFLEX ULTRA GRIGIO with about 6.5 - 7 l of water. Mix with a mason's trowel, or better with a low speed mixer, until the mixture is smooth and free of lumps. Let the mixture stand for about 5 – 7 minutes and then briefly remix before using. Apply GLUEFLEX ULTRA with a serrated spatula, first pressing it onto the substrate with the smooth side of the spatula. This operation not only ensures that all traces of dust are incorporated, it also makes the most of the adhesive open and adjustment time. The tiles do not need to be dampened before laying; however, if the area is quite dusty, it is best to wash down with clean water. During laying, check that a film does not form on the surface of the adhesive; if it does, run fresh adhesive over the surface with the spatula. Under normal temperature and humidity conditions, GLUEFLEX ULTRA open time is at least 30 minutes; unfavourable environmental conditions (beating sunlight, wind, high temperatures) can reduce the open time to just a few minutes.

The tiles must be applied exerting good pressure to ensure perfect wetting. Any coating adjustments must be performed within 20 minutes.

Walkability approx. 24 hours.

Heavy traffic 14 days

Baths and swimming pools can be filled after 21 days.

The spaces between wall tiles can be filled after 4-8; after 24 hours for floor tiles.

For large formats or in the case of application in swimming pools and water tanks, it is necessary to spread the adhesive also on the back of the tile following the indications of the UNI 11493 standard (double spreading technique).

STORAGE

Disposal and safety indications:

Dispose of in accordance with local regulations.

For information on possible hazards, refer to the safety data sheet

Packaging:

25kg bags

Storage:

1 year on a pallet and when stored in a dry place in undamaged packages at between 5 and 30°C.

TECHNOLOGIES/CERTIFICATIONS

