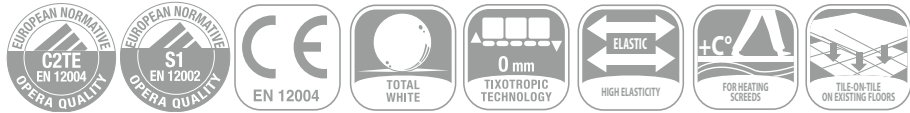


RT Gel Tech



A polymer-modified, thixotropic, cement-based adhesive with variable viscosity, formulated with special cross linked rheological modifiers. Excellent flow and workability, outstanding wetting capacity, very high performance, high yield, excellent deformability, no vertical slip and extended open time.



Fields of application:

- Residential buildings, offices and public premises, supermarkets, malls, balconies, terraces, roof terraces, laboratories, plant rooms, tanks, pools, spa, thermal centres, tile installation on façades, squares, sidewalks, walkways;
- single and double fired material, majolicas, clay, gres, porcelain, stoneware, marbled stoneware, clinker, ceramic and glass mosaic,

- natural stones and reconstructed stones that are dimensionally stable and not subject to staining, cementitious marmets, strips and materials with an irregular profile or recessed reverse, insulating materials such as polystyrene, cork, mineral wools.
- professional use only.

Characteristics:

RT Gel Tech is an ameliorated cement-based adhesive, slipping resistant, prolonged open time and deformable, high wetting capacity for floor and wall installation of ceramic tiles of any type and size, even thin tiles, and moisture-resistant natural stones and not staining-sensitive.

Preparazione:

add the correct rate of clean water (7.0 – 7.5 l of water per bag) in a suitable bucket, and progressively add the adhesive **RT Gel Tech** by mixing with a low-speed stirrer, till getting a smooth mixture free of lumps; let the mixture rest for 5 minutes, mix again and proceed with the application.

Quality and Environment:

RT Gel Tech undergoes constant, careful testing at our laboratories, in compliance with the legislation in force - UNI EN ISO 9001/2015.

Application:

apply **RT Gel Tech** using an appropriate notched trowel for the size of the tile to be laid. Lightly dampen highly absorbent, porous surfaces. This measure extends the wetting ability of the adhesive. Using the smooth side of the trowel, apply the first coat of **RT Gel Tech** to ensure perfect bonding to the substrate; using the notched side of the trowel, apply a sufficient layer of adhesive to ensure complete coverage and, consequently, achieve a full installation bed. Use the back-buttering technique to grant perfect wettability and perfect filling (void-free pockets), by applying the adhesive **RT Gel Tech** both on the substrate and on the rear of the tile, in the following cases: installation of outdoor floor and wall tiles with an upper side of 30 cm; installation of indoor floor and wall tiles with an upper side of 60 cm; installation of thin-section porcelain stoneware, particularly in the case of large-format tiles; installation on screeds or plaster with underfloor heating/conditioning systems; installation of floor and wall tiles in baths, swimming pools, laboratories and spas; tiles subject to heavy loads, vibrations or severe operating conditions; check that the applied adhesive has not formed a surface film which could compromise the tile's proper wetting; in such cases, break the surface film by working the adhesive again with a notched trowel.

Characteristics	Application Methods	Consumption
One component Mixing water: 32 – 34 % (7 – 7,5 l each bag) PH of the paste: ≥ 12 Volumic mass of the fresh mortar: 500 kg/m ³ Mixture resting time: 5 minutes Open time: ≥ 30 minutes Handling time: ≥ 50 minutes Pot life: 6 – 8 hours Open to passage: 24 – 48 hours Operating temperature -30°C +90°C Consult MSDS before application	Smooth and toothed trowel	1.2 kg/m ² per mm of thickness
		Conservazione
		Shelf life of 12 months in its original packages and in a dry place

Code	Product	Color and Form	Packaging	Pallet
103235	RT Gel Tech	Grey Powder	25 kg	1500 kg
103236	RT Gel Tech	Total white Powder	25 kg	1500 kg

RT Gel Tech

Warnings:

- install the flooring on a clean, durable, solid, well-cured, undamaged, crack-free, dry, stable substrate with no rising damp;
- smooth, wax-treated surfaces that are particularly smooth and non-absorbent, such as concrete tiles, marble, natural stones and reconstituted stones, must be prepared prior to installation by performing appropriate surface abrasion/sanding;
- do not use for installing natural or reconstituted stones affected by moisture swelling or staining;
- do not install on substrates heated by direct sunlight, with standing water or with ice/frost;
- during the summer season, when temperatures are high or ventilation is poor, apply mortar to small areas at a time to prevent the adhesive from forming a film, which could compromise complete wetting and proper tile bed installation;
- prepare the mixture using the specified amount of water; any excess will result in delays in setting times and in the adhesive's final mechanical properties;
- capillary moisture rising from the subfloor may cause color variations in the grout and lead to swelling or staining of moisture-sensitive materials; in such cases, evaluate the installation of a vapor barrier before laying the flooring;
- install the flooring on cracked, unstable or inadequately cured substrates by using a suitable decoupling membrane to ensure that the flooring is independent of the subfloor;
- where there is an air-conditioning system, the flooring must be laid strictly after the system has undergone thermal testing (thermal shock) which must be carried out in accordance with the specifications of standard UNI EN 1264-4;
- the product is not suitable for fast-track projects: no immediate walk on nor immediate traffic opening on the newly installed flooring;
- in the case of underfloor air conditioning system, apply two coats to ensure that the tile lies perfectly flat thereby ensuring the best mechanical and thermal performance of the flooring;

Technical and application specifications

Relevant regulation:	UNI EN 12004
Item classification:	C2TE - S1
Color:	total white - grey
Powder:	100%
Particle size distribution:	0 - 0,5 mm
Apparent volumic mass of powder:	1200 kg/m³
Mixing water:	32 - 34 % (7 - 7,5 l each bag)
pH mixture:	≥ 12
Volumic mass of fresh mortar:	1500 kg/m³
Mixture resting time:	5 minutes
Open time:	≥ 30 minutes
Handling time:	≥ 50 minutes
Pot life:	6 - 8 hours
Open to passage:	24 - 48 hours
Waiting time before grouting:	on wall 4 - 8 hours on floor 24 - 48 hours
Ready for use:	14 days
Floor polishing/sanding:	21 days
Filling structures that are continuously submerged in water, such as swimming pools and tanks:	21 days
Application temperature:	from -30°C to +90°C
Harmonized customs code:	38245090

Measurement of data at 23°C/50% Residual Humidity and no ventilation. The data may be considerably modified by the conditions of use.

Performance Specifications

Performance	Test method	Requirement	Performance
Initial adhesion	EN 1348 clause 8.2	≥ 1,0 N/mm²	2,0 N/mm²
Adhesion after heat action	EN 1348 clause 8.3	≥ 1,0 N/mm²	2,2 N/mm²
Adhesion after immersion in water	EN 1348 clause 8.4	≥ 1,0 N/mm²	1,1 N/mm²
Adhesion after freeze-thaw cycles	EN 1348 clause 8.5	≥ 1,0 N/mm²	1,7 N/mm²
Transverse deformation	EN 12002	S1 ≥ 2,5 mm	2,70 mm
Reaction to Fire Class	EN 12004	classified	Class E