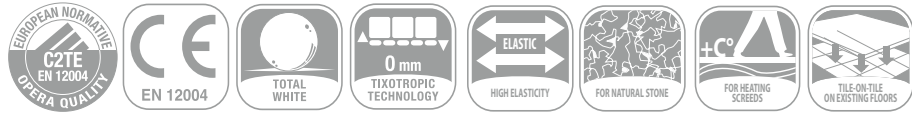




RT Universal

One-component, thixotropic cement-based adhesive with extended open time and improved adhesion, for indoor/outdoor installation of every type of large sized tiles and stable natural stones, even for tile over tile application, and on heating screeds.



Fields of application:

- to apply floor and wall tiles of any size in porcelain stoneware, low thickness stoneware, single and double fired material, glass mosaic, ceramic mosaic, stable natural stones indoors on cured cement-based screeds, on screeds made with Basecem or Basecem Pronto, on self-levelling products such as Planirapid Autolivellante or Planirapid Autolivellante Maxi, on smoothing plasters such as Rasoplan Tixo, on anhydrite screeds and on radiating floors. To apply wall tiles on traditional render, pre-mixed render, plasterboard, gypsum;
- to apply floor tiles of any size in porcelain stoneware, single and double fired material, ceramic mosaic, stable natural stones outdoors on cured cement-based screeds, on screeds made with Basecem or Basecem Pronto;

Characteristics:

RT Universal is a one-component cement-based adhesive with standard setting classified C2TE according to norm EN 12004. The formula of **RT Universal**, made up of fine aggregates, 52.5 Portland cement, fission-stable polymers with low environmental impact, water-retaining celluloses, gives the adhesive an open time of 30 minutes, making it ready for walk over after 24 hours and ready for use in 7 days, guaranteeing easy and safe installation of floor and wall tiling. Indicated for indoor and outdoor civil, commercial and industrial applications.

Quality and Environmental Standards:

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

- for tile over tile application of any size in porcelain stoneware, single and double fired material and ceramic mosaic indoors and after cleaning with Detergente Basico;
- to spot-bond insulating materials such as foam polyurethane and polystyrene, rock or glass wool on walls or ceilings;
- to apply floor and wall tiles of any size in porcelain stoneware, single and double fired material, glass mosaic, ceramic mosaic and stable natural stones indoors and outdoors on waterproofing membranes such as Sanigum, Scudo Revolution and Scudo A+B;
- professional use only.

Application:

RT Universal must be mixed with 8 l of water every 25 kg bag with a low speed stirrer, till getting a smooth mixture free of lumps. Do not add other hydraulic binders or aggregates. Check that the substrate complies with norm EN 1493 point 7.3 as for the requirements of curing, integrity, surface sturdiness, dimensional regularity, residual humidity and rising damp. In very absorbing substrates, gypsum, anhydrite or with minor crumbling pre-treat with **Primer GS**. Apply **RT Universal** creating an adhesive layer of max. 10 mm, so as to coat the tile back side completely. Follow the norm EN 11493 point 7.9/7.11 for outdoor applications, in sizes with side ≥ 60 cm and in low thickness tiles. Apply a layer of adhesive on the tile back side (backbuttering) in case of strong stresses or when required by the ceramic manufacturer. Create elastic expansion joints every 10 m² outdoors and every 25 m² indoors, every 4 m in sidewalks and skirting boards.. The installation area must be protected from rain during the 24 hours following the laying with **RT Universal** and must not be exposed to freezing temperatures during the first 5 days.

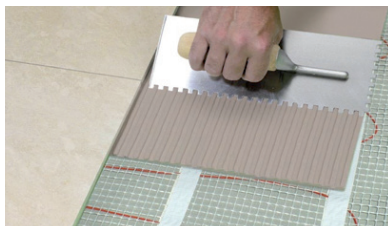
CE	
Opera Srl Via degli Scavi 19/21 47122 Forlì - Italy	
DOP-IT-01-007 RT UNIVERSAL GRIGIO EN 12004:2007+A1:2012 Improved cement-based adhesive for tiles with limited slip and extended open time, for indoor and outdoor application	
Fire reaction	Class A1/A1 fl
Adhesion strength:	
- Initial tensile adhesion	≥ 1.0 N/mm ²
- Tensile adhesion after thermal ageing	≥ 1.0 N/mm ²
- Tensile adhesion after immersion in water	≥ 1.0 N/mm ²
- Tensile adhesion after frost-thaw cycles	≥ 1.0 N/mm ²
Release of harmful substances:	See Safety data sheet

Characteristics	Application methods	Consumption
One-component Mixture water: 35% in weight of white adhesive Mixture water: 31% in weight of grey adhesive Open time: 30 minutes Adjustment time: 60 minutes Waiting time for wall joint grouting: 4/8 hours Waiting time for floor joint grouting: 24 hours Frost-proof Elastic Max. bedding thickness: 10 mm Walk over time: 24 hours Ready for use: 7 days	Smooth or toothed trowel	2,5-5 kg al m ²
		Storage Shelf life of 12 months in the original packages and in a dry place

Code	Product	Form and color	Packages	Pallet
103025	RT Universal	Grey powder	25 kg	1500 kg
103125	RT Universal	Total white powder	25 kg	1500 kg

Warning:

- do not use cast-in-situ on concrete constructions that have been set for less than 3 months;
- on gypsum or anhydrite bases, use **Primer GS** beforehand;
- do not use where an adhesive layer over 10 mm thick is necessary;
- do not use on surfaces which need to be treadable in a short space of time;
- do not use on metal, PVC, linoleum, or wooden surfaces.



Technical and application specifications

Hazard classification as per Directive 99/45/CE:	grey: irritant - white: none
Mixing water:	35-37% of weight (approx. 8 l per 25 kg bag GREY) 35-37% of weight (approx. 8 l per 25 kg bag WHITE)
Specific weight of mixture:	1.50 g/cm³
Mixture pH:	over 12
Pot life:	over 8 hours
Application temperature:	from +5°C to +40°C
Open time (according to EN 1346):	30 minutes
Handling time:	approx. 60 minutes
Joint sealant hardening time on walls:	approx. 4/8 hours (depending on the absorption)
Joint sealant hardening time on floors:	approx. 24 hours
Walk-over time:	24 hours
Ready for use:	approx. 7 days
FINAL PERFORMANCES SPECIFICATIONS EN 1348 (N/mm²)	
Initial adhesion (after 28 days):	2.00 N/mm²
Adhesion after immersion in water:	1.30 N/mm²
Adhesion after freeze-thaw cycles:	1.50 N/mm²
Adhesion after heat action:	1.80 N/mm²
Acid resistance:	poor
Resistance to damp, solvents, oil, alkalis and ageing:	excellent
Temperature resistance:	from -30°C to +90°C
Harmonised 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.