

GECOL Extra

High-strength, thixotropic, adhesive with extended adjustment time



Suitable for the interior and exterior application of conventional ceramic on standard masonry and even on large format ceramic brick.

Suitable for applying vitreous mosaic in swimming pools.

Suitable for thin bed use with block masonry or cellular concrete partition walls.

Can be used in both thin-bed and thick-bed (up to 15 mm) applications.

Powerful wetting effects. Excellent wetting effect capabilities on both the substrate and the ceramic.

Highly thixotropic. No vertical slip, offering excellent performance in diagonal and even atypical applications (top to bottom).



Uses	Quality	Regulations
	QUARTZ Technology	 ACCORDING EN-12004 According to the European standard UNE EN 12004 CITE CEMENTITIOUS ADHESIVES FOR CERAMIC TILES



Areas of application

Cementitious adhesive, suitable for the application of ceramic tiles with a water absorption rating of greater than 3 %:

- Ceramic tiles.
- Ceramic mosaic.
- Terracotta.
- Vitreous mosaic.
- Natural and engineered stone.
- Marble, granite, limestone, etc.

Suitable for application on interior floors and claddings and exterior flooring and skirting for domestic and commercial use including in areas subject to sudden temperature variations, on the following substrates:

- Cement rendering.
- Cementitious flooring.
- Cement blocks.
- Large format ceramic brick.
- Cellular concrete.
- Substrates made of gypsum plaster, plaster, anhydrous plaster, perlite plaster and similar materials (after applying **GECOL Primer-TP**).



Directions for use

1_Before getting started

- During application, prevent water from penetrating between the substrate and the piece and provide protection.
- For large-format tiles, we advise applying the back buttering technique.
- To prevent lippage, adhesive thicknesses should be uniform.
- When applying on large format ceramic brick, it is of vital importance that these are free of the remnants of any gypsum plaster or plaster used to build these ceramic partition walls.
- We advise a joint spacing of 3 mm between tiles indoors and 5 mm between those outdoors.
- With masonry using cellular concrete blocks or partition walls, the application thickness will be 1.5 to 2 mm.

- Depending on the size format of the tile to apply, we recommend the use of different trowels, as shown in the table:

Notched trowel table		
Tile format	Notched trowel	Adhesive method
< 100 cm ²	U4 (4x4x4)	Simple buttering
< 450 cm ²	U6 (6x6x6)	Simple buttering
< 900 cm ²	U6 (6x6x6) / U9 (9x9x9) ó 110	Double / Simple buttering
> 900 cm ²	U9 (9x9x9) ó 110	Double buttering

- If in doubt, always consult our Technical Department.

2_Substrate preparation

- As a general rule, all substrates must be: sturdy, clean, stable, rough, flat, with some degree of moisture and absorption and totally set-up (hardened).
- On porous substrates or in warm weather, the substrate must be previously moistened and you must wait for the film of water to disappear
- Substrate types and conditions:

A. Cement mortar substrate:

Solid and clean with excellent resistance with all mortar retraction complete.
When applying via mechanical projection, wet down several times two days afterwards to prevent drying out. Apply a floated finish in all cases.

B. Ceramic brick substrate:

Solid, clean, stable and have all shrinkage completed.

C. Cellular concrete substrate:

Solid, clean and stable.

D. High-absorption substrates:

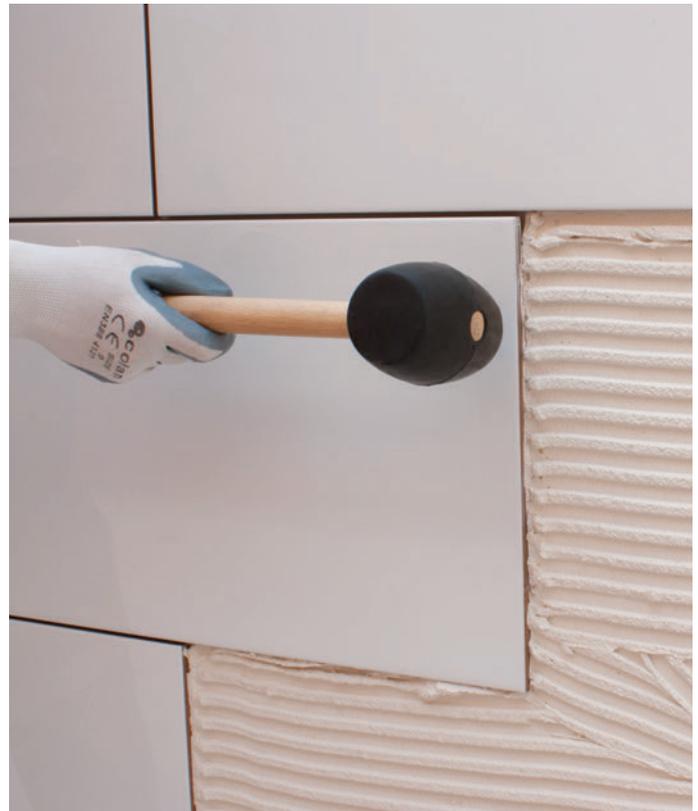
We recommend the application of a coat of **GECOL Primer-TP** to reduce water absorption, harden the surface and facilitate the adhesive spreading.

3_Preparation of the mix

- Mix the product with clean water until you have smooth and lump-free paste.
- Let it rest and then mix the paste again.
- The amount of water indicated on the packaging is a guideline and may vary by a small percentage depending on the geographic region where production takes place.
- Mixes with more or less thixotropic consistency may be obtained, depending on the application desired.
- Adding excess water can cause the thickness to be reduced due to shrinkage during the plastic phase of drying, reducing its ultimate performance, as well as result in a poorer application of the adhesive.

4_Application

- Apply **GECOL Extra** on the substrate.
- Align the tiles with the use of spacers.
- Screed the thickness with a notched trowel chosen based on the format of the ceramic tile and the flatness of the substrate, ensuring that the back of the tile is thoroughly wetted.
- Check that the tile does not have any dust, dirt or poorly attached layers.
- For good adhesion, we recommend that a thin layer of **GECOL Extra** be applied on the substrate using the flat side of the trowel, followed by the application of the desired thickness of the adhesive using a notched trowel suitable for the tile type and format.
- We recommend using the double buttering technique in cases such as those involving large-format pieces, flooring subject to heavy loads, materials to be polished, etc.
- It is not necessary to wet the tile before placing it. Only if the back of the tile is very dusty do we recommend washing it with clean water.
- Apply the tile and tap it with a rubber mallet until the mark or groove left by the notched trowel is broken, periodically checking the stickiness of the pasta (lifting up the tile already installed).
- Under normal temperature and humidity conditions, **GECOL Extra** has an open time of 30 minutes. However, bad weather (strong sunshine, a drying wind, high temperatures) and a highly absorbent substrate could significantly reduce this time.
- The adhesive should be checked regularly to ensure there is no skinning of the adhesive and that it is fresh. Otherwise, it should be re-combed with a notched trowel, but never wet the adhesive.



5_Grouting

- For sealing joints, we recommend using specific materials like products of the **GECOL Junta** range.
- When a good chemical resistance is required, use anti-acid epoxy compounds such as **GECOL Epoxi**.
- Take care to preserve movement joints on any structural joint the building has.

Limits of use

Do not use:

- On deformable laminated plasterboard panels, metal, plastics or concrete coated with a thin sealing film lacking optimal consistency.
- Do not apply if the substrate has a moisture content above 3 %.

Coverage
Simple buttering technique: +/- 3 - 4 kg/m ²
Back buttering technique: +/- 5,5 - 6,5 kg/m ²
Supply
Packages: 25 kg plasticised paper bags
Colours: grey and white
Product
Composition: white or grey cement, silica and/or limestone sand, selected nanotechnological additives
Apparent density of powder: 1.40 +/- 0.10 kg/litre
Storage
Twenty-four months from date of manufacture in a sealed package and protected from the weather

- Perimeter movement joints in corners and changes in plane, height or material.
- Movement joints that constitute maximum surface areas of 50 m² indoors, 25 m² outdoors and 16 m² with dark colours on exterior surfaces.
- All movement joints should be filled with elastic mastic like **GECOL Elastic-MS**.

Cleaning

Clean any residue on the tools and coated surfaces with water before the product hardens.

Application	
Mixing water:	7 - 7.5 litres/25 kg approx.
Pot life of the mix:	over 2 hours
Open time:	30 minutes
Stand time:	5 minutes
Grouting:	after 24 hours on façade coverings and 48 hours on flooring
Traffic bearing:	24 to 48 hours after grouting (depending on weather conditions)
Surface polishing:	after 14 days
Thickness for tile application:	from 3 to 15 mm
Application temperature:	from +5 °C to +35 °C (measured on the substrate)
Ultimate performance	
Slippage:	< 0.5 mm
Working temperature:	from -15 °C to +50 °C
Initial adhesion strength:	greater than 0.5 N/mm ²
Adhesion after water immersion:	greater than 0.5 N/mm ²
Adhesion after heat ageing:	greater than 0.5 N/mm ²
Adhesion after a freeze-thaw cycle:	greater than 0.5 N/mm ²
Compressive strength:	greater than 7.5 N/mm ²
Reaction to fire:	Euroclass A1

Warnings

Prior to the use of this adhesive, we recommend consulting the instruction manual. The information provided in this technical documentation has been obtained under standard laboratory conditions, and so may vary depending on the on-site installation and on the specific weather conditions, which are beyond our control.

GECOL guarantees that their auxiliary products will perform flawlessly in the situations listed. Materials from other brands or situations other than those described can affect the physical and aesthetic properties of our products.

Safety data

DANGER



GHS07

GHS05

Hazard

- H315** Causes skin irritation.
- H317** May cause an allergic skin reaction.
- H318** Causes serious eye damage.
- H335** May cause respiratory irritation.

Precautionary

- P102** Keep out of reach of children.
- P103** Read label before use.

P261 Avoid breathing dust.

P280 Wear protective gloves / protective clothing / eye protection / face protection.

P302 + P352 IF ON SKIN: Wash with plenty of soap and water.

P305 + P351 + P338 IF IN EYES: Rinse cautiously with water for several minutes. Remove contact lenses, if present and easy. Continue rinsing.

P310 Immediately call a **POISON CENTER** or doctor.

P501 Dispose of contents / container in accordance with current legislation waste treatment.

1999 / 45 / EC The product contains Chromium VI reducer, declared the period of effectiveness is indicated on the packaging.