



Forcol® FLEXIBLE

Cementitious adhesive C2TE



FORCOL FLEXIBLE is a cement-based adhesive specially designed for installing ceramic tiles, porcelain stoneware, marble, stone, or similar materials whether small or large format, absorbent or non-absorbent on large surface floors, both indoors and outdoors, high-traffic floors, and over existing flooring. Also suitable for exterior wall tiling where minimum deformability is not required..

COMPOSITION

Formulated with white or grey cement, selected aggregates, organic and inorganic additives, and resins that improve workability, water retention, and adhesion.

APPLICATION

Ideal for:

- ▶ Ceramic and porcelain tiles
- ▶ Marble and stone
- ▶ Small and large formats
- ▶ Absorbent and non-absorbent materials
- ▶ Large surface floors
- ▶ Indoor and outdoor use
- ▶ High-traffic areas
- ▶ Existing flooring
- ▶ Exterior wall tiling (non-deformable)

PROPERTIES

- ▶ Subject to rigorous quality control
- ▶ Complies with Spanish and European standards (UNE, EN)
- ▶ Guaranteed homogeneity through advanced dosing and weighing systems
- ▶ Easy to apply
- ▶ High adhesion to substrates
- ▶ Excellent water retention
- ▶ Suitable for high-traffic flooring due to its flexibility, adhesion, and high compressive and shear strength.

SUITABLE SUBSTRATES

- ▶ Concrete and cement-based floors
- ▶ Interior mortar renderings.

SUBSTRATE CONDITIONS:

Substrates must meet the following conditions:

- ▶ Must be strong and free of dust, grease, paint, water repellents, antifreeze, etc.
- ▶ Remove degraded or loose areas
- ▶ Check flatness with a 2-meter ruler; deviations must be less than 5 mm
- ▶ Level with the same product 48 hours before installation; for thicknesses over 10 mm, use traditional mortars
- ▶ Do not use on metal or wood
- ▶ If exposed to sun or highly absorbent, moisten the substrate beforehand

- ▶ Do not apply on substrates with moisture above 3%
- ▶ For other substrates or uncertain adhesion, contact Technical Support: +34 964 343 300 or comercial.forcol@origenmateriales.es

CONSUMPTION

- ▶ Approx. 4.5 kg/m² for single bonding
- ▶ Approx. 7 kg/m² for double bonding
- ▶ Flatness variations may affect consumption.

PACKAGING

- ▶ Powder product in approx. 20 kg multi-layer paper bags with moisture-resistant bottom film
- ▶ Pallet: 1440 kg (72 bags), shrink-wrapped for rain protection (simple wrapping in summer)
- ▶ Available in white and grey (color indicated on all sides of the bag).

STORAGE

12 months from manufacturing date in original sealed packaging, stored in a cool, ventilated, dry place.

NOTES

All products undergo quality control in our lab and certified labs. For inquiries about new products or technical advice, contact our design department at:

- ▶ Phone: +34 964 343 300
- ▶ Email: comercial.forcol@origenmateriales.es.

WARNING

This information is based on our tests and experience. Recommendations do not imply any warranty, as application conditions are beyond our control. Users must ensure the product is suitable for their intended use and are advised to conduct a detailed evaluation before large-scale application.

INSTRUCTIONS FOR USE:

FORCOL FLEXIBLE / Cementitious adhesive C2TE

1. Mix FORCOL FLEXIBLE with approx. 22% water (4.2–4.6 L per 20 kg grey bag) or 23% (4.4–4.8 L per 20 kg white bag)
2. Stir manually or mechanically until a lump-free, homogeneous paste is obtained (use a slow electric mixer at 500 rpm; slower speeds introduce air and reduce strength)
3. Let the mix rest for 5 minutes, then homogenize again
4. Use full bags, add the same amount of water, and mix all at once for consistent mortar
5. Apply with a notched trowel in small areas from bottom to top to regulate thickness; ensure mortar ridges retain their shape
6. Place tiles and press from top to bottom until ridges are flattened and product is evenly distributed; for very smooth or highly grooved backs, apply adhesive to the back of the tile as well

PRECAUTIONS / RECOMMENDATIONS:

- ▶ Respect mixing water ratio to avoid shrinkage and poor adhesion; re-stir to restore consistency
- ▶ In extreme conditions (high temperatures, strong winds), check for surface film formation; remove by re-troweling; never moisten with water (creates anti-adhesive layer)
- ▶ Protect tiles from expansion/contraction with proper joint treatment
- ▶ Prevent water ingress between tile and substrate; use cornices, drip edges, etc.
- ▶ Wind reduces open time and adhesion
- ▶ Do not use in presence of standing water
- ▶ Double bonding recommended for tiles with sides over 30 cm
- ▶ For formats over 60x40 cm or weights over 40 kg/m², mechanical anchors are recommended
- ▶ Press tiles firmly to ensure full contact and avoid voids.
- ▶ On facades, create expansion joints and perimeter joints at cornices, slab edges, etc., and respect structural joints
- ▶ Periodically check tackiness by lifting a tile
- ▶ Installation quality depends heavily on workmanship and substrate conditions

TECHNICAL DATA:

Classification: UNE-EN 12004	C2TE
Mixing water (grey):	22 ± 1%
Mixing water (white):	23 ± 1%
Application temperature:	5 - 30 °C
Powder density:	1,4 ± 0,05 Kg/L
Paste density:	1,6 ± 0,05 Kg/L
Initial adhesion:	≥ 1 N/mm ²
Adhesion after water immersion:	≥ 1 N/mm ²
Adhesion after heat aging:	≥ 1 N/mm ²
Adhesion after freeze-thaw cycles:	≥ 1 N/mm ²
Slip:	≤ 0,5 mm
Open time:	30 minutes
Adjustment time:	≤ 30 minutes
Pot life:	90 minutes
Joint filling:	24 hours
Walkable:	48 hours
Final service time:	14 days
Rest time after mixing:	5 minutes
Max application thickness:	10 mm
Fire resistance:	Class A1



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