



Forcol®

MULTI TECH

Cementitious Adhesive CITE



FORCOL MULTI TECH is a cement-based adhesive with reduced slip and extended open time, suitable for applying medium/high absorption ceramic tiles indoors and outdoor floors on mortar renderings, for indoor application on plasterboard substrates, and for installing mosaic tiles, glass blocks, and small/medium-format low-absorption ceramic tiles on interior floors. Product certified by the Scientific and Technical Center for Building (CSTB) (Qb mark).

COMPOSITION

FORCOL MULTI TECH is formulated with white or grey cement, selected aggregates, and organic and inorganic additives.

APPLICATION

Cement-based adhesive suitable for medium/high absorption ceramic tiles indoors and outdoor flooring over mortar renderings. Also suitable for indoor use on plasterboard substrates and for installing mosaic tiles, glass blocks, and low absorption ceramics of small/medium format on indoor floors.

PROPERTIES

- ▶ Subject to rigorous quality control.
- ▶ Complies with Spanish and European standards (UNE, EN).
- ▶ Guaranteed homogeneity, manufactured with advanced dosing and weighing systems.
- ▶ Easy to apply.
- ▶ High adhesion to the substrate.
- ▶ Excellent water retention.

SUITABLE SUBSTRATES

- ▶ Concrete floors and cement-based surfaces.
- ▶ 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 surfaces.
- ▶ If exposed to sun or highly absorbent, moisten beforehand.
- ▶ Do not apply on substrates with moisture above 3%.
- ▶ For other substrates or uncertain adhesion, consult the Technical Department at +34 964 343 300 or Email: comercial.forcol@origenmateriales.es.

COVERAGE

Approximate consumption:

- ▶ 4.5 Kg/m² for single bonding.
- ▶ 7 Kg/m² for double bonding. Flatness variations may affect coverage.

PRESENTATION

- ▶ Powder product sold 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

1. Mix FORCOL MULTI TECH with approx. 22% water for grey (4.2–4.6 L per 20 Kg bag) or 23% for white (4.4–4.8 L per 20 Kg bag).
2. Stir manually or mechanically until a lump-free, homogeneous mix is obtained. Use a slow electric mixer (500 rpm); slower speeds introduce air and reduce adhesive strength.
3. Let the mix rest for 5 minutes, then homogenize.
4. Use full bags, add the same amount of water, and mix simultaneously for consistent mortar.
5. Apply with a notched trowel in small sections from bottom to top to regulate thickness. Ensure the mortar ridges retain their shape.
6. Place ceramic materials and press from top to bottom to flatten ridges and ensure uniform distribution. For tiles with smooth backs or deep grooves, apply adhesive to the back as well.

APPLICATION PRECAUTIONS

- ▶ Respect mixing water ratio to avoid shrinkage and poor adhesion.
- ▶ If hardened, re-stir to restore plasticity.
- ▶ In extreme conditions (high temperature or wind), check for surface film formation. Remove by re-troweling. Do not moisten with water—it creates an anti-adhesive layer.
- ▶ Protect ceramic coverings from expansion/contraction with proper joint treatment.
- ▶ Prevent water ingress between substrate and tile; use cornices, drip edges, etc.
- ▶ Wind reduces open time and adhesion.
- ▶ Do not use where standing water is present.
- ▶ Double bonding recommended for tiles with sides over 30 cm.
- ▶ Max weight on vertical surfaces: 40 Kg/m².
- ▶ Max tile size on vertical surfaces: 2200 cm².
- ▶ Press tiles firmly to ensure full contact and avoid voids.
- ▶ Not suitable for heated floors.
- ▶ Periodically check tackiness by lifting a tile.
- ▶ Installation quality depends heavily on workmanship and substrate conditions.

TECHNICAL DATA:

Classification: UNE-EN 12004	CITE
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:	≥ 0,5 N/mm ²
Adhesion after water immersion:	≥ 0,5 N/mm ²
Adhesion after heat aging:	≥ 0,5 N/mm ²
Adhesion after freeze-thaw cycles:	≥ 0,5 N/mm ²
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 reaction:	Class A1



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