



# Forcol®

## EXTRA

Cementitious adhesive C2



20 Kg



**FORCOL EXTRA** is an improved cementitious adhesive suitable for indoor and outdoor wall and floor tiling with medium/low absorption ceramics on mortar substrates. Also suitable for baseboards.

### COMPOSITION

FORCOL EXTRA is formulated from white or gray cement, selected aggregates, and organic and inorganic additives.

### APPLICATION

FORCOL EXTRA is a cement-based adhesive with enhanced properties suitable for interior wall and floor tiles and exterior pavements of medium/low absorption ceramics on mortar substrates. Also for skirting boards.

### PROPERTIES

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

### SUITABLE SUBSTRATES

- ▶ Concrete or cement-based floors and interior plastered surfaces.

### SUBSTRATE CONDITIONS:

Substrates must meet the following conditions:

- ▶ Must be strong and free from dust, grease, paint, waterproofing agents, antifreeze, etc.
- ▶ Remove degraded or loose areas.
- ▶ Check flatness with a 2-meter straightedge; deviations must be less than 5 mm.
- ▶ If necessary, level with the same product 48 hours before installation. For thicknesses over 10 mm, use traditional mortars.
- ▶ Do not apply on metal or wood surfaces.
- ▶ If the surface is exposed to sunlight or is highly absorbent, moisten it beforehand.
- ▶ Do not apply on substrates with moisture higher than 3%.
- ▶ For other substrates or uncertain adhesion, consult the Technical Department at +34 964 343 300 or Email: [comercial.forcol@origenmateriales.es](mailto:comercial.forcol@origenmateriales.es).

### COVERAGE

Approximate consumption of FORCOL EXTRA:

- ▶ 4.5 Kg/m<sup>2</sup> for single bonding.
- ▶ 7 Kg/m<sup>2</sup> for double bonding. Flatness variations may affect coverage.

### PRESENTATION

FORCOL EXTRA is supplied as a dry powder in:

- ▶ 20 Kg multi-layer paper bags with moisture-proof inner film.
- ▶ Pallets of 1440 Kg (72 bags), shrink-wrapped and prepared to resist rain if hermetically closed.
- ▶ In summer months, single shrink-wrap is used.
- ▶ Colors: white and gray (clearly 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](mailto: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 EXTRA with approximately 22% water if gray (4.2–4.6 L per 20 Kg bag) or 23% if white (4.4–4.8 L per 20 Kg bag).
2. Mix manually or mechanically until homogeneous and lump-free. Use a slow-speed electric mixer ( $\approx 500$  rpm); slower mixing introduces air and reduces adhesive strength.
3. Allow the mixture to rest for 5 minutes, then remix.
4. For uniform mortar characteristics, use full bags and the same water ratio.
5. Apply with a notched trowel in small sections from bottom to top to regulate thickness. Ensure ridges maintain their shape.
6. Place the ceramic materials and press using a vertical motion to collapse ridges and ensure full contact.
7. Better adhesion is achieved when installation occurs shortly after spreading. For very smooth or deeply grooved tiles, apply adhesive also to the back.

**APPLICATION PRECAUTIONS**

- ▶ Respect the indicated water ratio; excess water causes shrinkage and poor adhesion.
- ▶ If the adhesive hardens, remix to recover workability.
- ▶ Under extreme conditions (high temperature, wind), ensure no surface film has formed; if it has, re-trowel. Never wet with water, as this forms an anti-adhesive layer.
- ▶ Protect ceramic coverings from expansion and contraction with proper joint treatment.
- ▶ Avoid water infiltration between substrate and tile during installation; use protective elements like drip edges or ledges.
- ▶ Wind reduces open time, decreasing adhesion.
- ▶ Do not use when standing water is present.
- ▶ Double bonding recommended for tiles with any side exceeding 30 cm.
- ▶ Maximum vertical load: 40 Kg/m<sup>2</sup>.
- ▶ Press tiles firmly to ensure full contact and avoid voids.
- ▶ Not suitable for radiant-heated floors.
- ▶ Regularly check tackiness by lifting a tile after placement.
- ▶ Workmanship and substrate quality are critical — follow product conditions strictly..

**TECHNICAL DATA:**

|                                   |                            |
|-----------------------------------|----------------------------|
| Classification (UNE-EN 12004)     | C2                         |
| Mixing water (gray)               | 22 $\pm$ 1%                |
| Mixing water (white)              | 23 $\pm$ 1%                |
| Application temperature           | 5 - 30 °C                  |
| Density (powder)                  | 1,4 $\pm$ 0,05 Kg/L        |
| Density (paste)                   | 1,6 $\pm$ 0,05 Kg/L        |
| Initial adhesion                  | $\geq 1$ N/mm <sup>2</sup> |
| Adhesion after water immersion    | $\geq 1$ N/mm <sup>2</sup> |
| Adhesion after heat aging         | $\geq 1$ N/mm <sup>2</sup> |
| Adhesion after freeze-thaw cycles | $\geq 1$ N/mm <sup>2</sup> |
| Open time                         | 20 minutes                 |
| Adjustment time                   | $\leq 20$ minutes          |
| Pot life                          | 90 minutes                 |
| Grouting time                     | 24 hours                   |
| Walkable                          | 48 hours                   |
| Full service strength             | 14 days                    |
| Resting time after mixing         | 5 minutes                  |
| Maximum layer thickness           | 10 mm                      |
| Reaction to fire                  | Class A1                   |


**C2**


EN 12004:2007+A1:2012  
0370  
DP 04-12004

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