



Forcol®

MORTERO RÁPIDO 15 MIN

RAPID-SETTING CONCRETE 15 MIN



GREY 25 Kg

Rapid-setting, ready-to-use non-structural concrete. Requires only mixing with water, no pre- or kneading needed.

COMPOSITION

Dry mix of Portland cement, sand, gravel, and organic/inorganic additives to improve properties (compressive strength, workability, etc.).

APPLICATION

Concrete intended for fixing and supporting vertical elements (fence posts, bollards, etc.), anchoring elements, manholes, urban furniture, vertical signs, foundations, and minor repairs (walls, pavements). For non-structural applications, both indoors and outdoors.

PROPERTIES

- ▶ Product subjected to strict quality control.
- ▶ Complies with Spanish and European standards (UNE, EN).
- ▶ Guaranteed homogeneity; manufactured in facilities with advanced dosing and weighing systems.
- ▶ Easy workability and excellent consistency retention.
- ▶ Ideal for sites with difficult access for concrete trucks.
- ▶ Very practical for small volumes and variable shapes.
- ▶ High initial strength.
- ▶ Possibility of storing leftover product.

SUBSTRATE CONDITIONS

- ▶ For soil filling, the ground must be compact and stable to prevent collapse during application.
- ▶ Other substrates must be resistant, stable, clean, and free of dust, plaster, paint, release agents, organic residues, etc.
- ▶ Clean substrates before application.
- ▶ Moisten absorbent substrates to prevent premature drying.
- ▶ Substrate must have adequate strength and be fully cured if applicable.
- ▶ For adhesion on substrates, apply a bonding bridge.

PRESENTATION

MORTERO RÁPIDO 15 MIN is sold in:

- ▶ 25 kg multi-layer paper bags with moisture-proof film.
- ▶ Pallet: 1350 kg (54 bags), shrink-wrapped for rain protection if bags remain sealed.
- ▶ Color: Grey.

STORAGE

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

OBSERVATIONS

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. Mixing:

- ▶ Add 2.5-3 L of clean water per bag (11 ±1%) and mix mechanically until homogeneous and lump-free.
- ▶ Use clean water free of harmful elements (salt, suspended particles, paint, grease, oils, etc.).
- ▶ Increasing water content reduces concrete quality.
- ▶ For fixing vertical elements, product can be placed directly in the hole:
- ▶ Prepare 3-3.5 L of water per bag.
- ▶ Add water to the bottom of the hole, position the element, pour product to ¾ depth, add water until saturated, then add remaining dry product and water.
- ▶ Final water amount depends on soil type.
- ▶ Maximum 5 minutes to adjust position.
- ▶ Do not exceed 20 cm depth per application to ensure proper saturation.

2. Application:

- ▶ Apply immediately after mixing, considering rapid setting.
- ▶ Vibrate or press with trowel or shovel to remove air.
- ▶ Recommended max thickness: 20 cm. For larger volumes, apply successive 20 cm layers.
- ▶ Smooth surface with trowel after application.
- ▶ Material begins to harden in 10-15 minutes.
- ▶ Plan mixing volume according to setting speed.

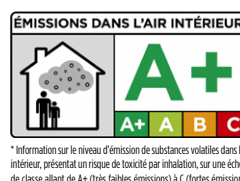
APPLICATION PRECAUTIONS

- ▶ Do not apply below 5 °C or above 35 °C.
- ▶ Do not add sand, cement, additives, or any product that modifies the original formulation.
- ▶ Respect water ratio to maintain performance.
- ▶ For mixers (50-250 L), mix at least 5 minutes.
- ▶ Do not apply under frost, rain, strong wind, or direct sun.
- ▶ Consider workability time for planning.
- ▶ For multiple layers, leave previous layer rough.
- ▶ For vertical anchors, follow manufacturer's recommendations and soil type for hole di-mensions.
- ▶ Cure concrete by spraying water or using curing agents; increase frequency in hot or windy conditions.
- ▶ Clean tools with water while concrete is fresh.

TECHNICAL DATA:

Max aggregate size:	11 mm
Appearance:	Grey
Minimum cement content:	300 kg/m ³
Dry density:	1800 ± 50 kg/m ³
Mixing water:	10-12% (soft consistency)
Max water/cement ratio:	0.6
Consistency:	6-9 cm (10-12% water)
Paste density:	2310 ±10 kg/m ³
Max working time after mixing:	<15 min
Final properties:	Compressive strength at 28 days ≥ 25 N/mm ² (soft consistency) Flexural strength at 24 h: 3.6 N/mm ² Compressive strength at 24 h: 15.1 N/mm ² Hardening time: 15 min Full setting: 28 days

(Values based on 23 °C and 50% RH; shorter at higher temperatures, longer at lower temperatures).



Location: Edificio Simetría
Paseo Buenavista s/n
12100 Grao de Castellón (Castellón) - SPAIN
Tel. +34 964 343 300

Contact emails:
Export: exportacion.forcol@origenmateriales.es
Sales: comercial.forcol@origenmateriales.es
Orders: pedidos.forcol@origenmateriales.es