



# Topcem Pronto



**Pre-blended  
ready-to-use mortar  
with normal setting  
for fast-drying  
screeds (4 days)**



## CLASSIFICATION ACCORDING TO EN 13813

Screeds prepared with **Topcem Pronto** in accordance with the specifications described in this technical data sheet are classified as CT - C30 - F6 - A1<sub>fl</sub> in compliance with the European Norm EN 13813.

## WHERE TO USE

For forming unbonded and bonded screeds on new and existing slabs in interiors and exteriors prior to installing wood, PVC, linoleum, ceramic tile, natural stone, carpet, or other floor coverings in areas where fast-drying screeds are required in order to lay floorings in a short time.

## Some application examples

- Forming screeds that are trafficable in 12 hours and completely dry in 4 days, for installing wood parquet and resilient flooring such as rubber, PVC, linoleum, etc.
- Screeds that are ready to receive ceramic tiles after 24 hours and natural stone flooring after 2 days.
- Repairing screeds in areas where it is required to lay floorings in a short time (e.g. supermarkets, shops, residences, offices, etc.).
- Forming heated screeds without the need for polymer additives.

## TECHNICAL CHARACTERISTICS

**Topcem Pronto** is a pre-blended ready to use mortar with normal setting and controlled shrinkage based on a special hydraulic binder and graded aggregate.

**Topcem Pronto** is extremely easy to use: just mix with water. This prevents mistakes from being made in adding the correct amount of binder and properly graded aggregate, which could compromise the final performance characteristics of the screed when cured.

**Topcem Pronto** is the ideal solution where good quality graded aggregate is hard to find or for job sites such as those in city centres where the logistics involved in mixing conventional binders can be difficult.

**Topcem Pronto** is workable for the same length of time as conventional cement based mortars but cures much faster.

## RECOMMENDATIONS

- Do not use **Topcem Pronto** on substrates subject to rising damp (place a vapour barrier in between).
- Do not mix **Topcem Pronto** with other binders (e.g. **Mapecem**, **Topcem**, cement, lime, gypsum, etc.) or aggregate.
- Mix **Topcem Pronto** with the correct amount of water.
- Do not add water to the **Topcem Pronto** mix once it has begun to set.
- Do not wet the surface of the **Topcem Pronto** screed.

## APPLICATION PROCEDURE

### Preparing the substrate

**Topcem Pronto** can be used on any substrate as long as it is not subject to rising damp. If so, use a waterproof membrane.

For screeds from 10 to 35 mm thick, that require anchoring, the substrate must be dry, without cracks, free of dust and loose particles, varnish, wax, oil, and gypsum residue.

## Preparing the mix

**Topcem Pronto** can be mixed in:

- rotating mixers;
- normal job site mixers;
- centrifugal mixers;
- truck mixers;
- automatic pressure pumps.

Mix one 25-kg bag of **Topcem Pronto** with 1.7 l of water for at least 5 minutes. Never vary the amount of water because this will weaken the mortar's final performance. The mix should have a semi-dry consistency. Tamp and float the mix until a dense, smooth surface is obtained without bleeding.

## UNBONDED SCREEDS (35 to 60 mm thick)

The **Topcem Pronto** mix must be laid on an isolating layer, made up of a polyethylene sheet barrier, or similar, to allow for movement between the screed and the existing substrate. In case of rising damp use a waterproof membrane to form a vapour barrier underneath the screed.

Areas of **Topcem Pronto** screeds containing pipes must be reinforced with light steel reinforcement such as a hexagonal mesh. Spread the **Topcem Pronto** mix just like any other cement based screed mix: use screed guides, then spread the mix, and tamp thoroughly before floating to obtain a better surface finish.

Place isolating material (such as cardboard, polystyrene foam, cork, etc.) about 1 cm thick around the sides of the area and around columns before casting.

If work is interrupted, place steel rods 20 to 30 cm long and 3 to 6 mm in diameter, spaced 20 to 30 cm apart, into the screed (which has been cut perpendicular to the substrate) to ensure a perfect connection between the new and the old pours and to prevent uneven joins and cracks.

**The Topcem Pronto mix is usually workable for a greater length of time than a conventional screed mix. Ambient temperatures may influence the setting and drying times.**

## BONDED SCREEDS (from 10 to 35 mm thick)

Thin screeds must be laid directly in contact with the substrate, which may be cementitious material or made up of an old ceramic or stone floor.

For other substrates, consult the MAPEI Technical Service.

After cleaning the substrate and immediately before placing the **Topcem Pronto** screed, prepare a bonding slurry as described below and apply it evenly with a brush or trowel. For perfect adhesion, place the **Topcem Pronto** mix while the bonding slurry is still fresh (fresh on fresh).

The **Topcem Pronto** mix for bonded screeds is exactly the same as the mix described above for unbonded screeds.

## Bonding slurry

Mix to a uniform consistence:

<b>Planicrete:</b>	250 g
<b>Water:</b>	250 g
<b>Topcem Pronto:</b>	3 kg

The mix tends to segregate - remix before applying.

## MEASURING MOISTURE CONTENT

Normal electric hygrometers give values that are not reliable for **Topcem Pronto** screeds. It is therefore absolutely necessary that a carbide hygrometer is used to measure the level of residual humidity; this instrument shows the absolute value of humidity by weight.

## CONSUMPTION

18-20 kg/m<sup>2</sup> per cm of thickness, depending on compaction.

## Cleaning

Clean tools with water.

## PACKAGING

**Topcem Pronto** is available in 25 kg bags.

## STORAGE

**Topcem Pronto** is stable for at least 12 months when stored in a dry place.

Manufactured in compliance with the regulations of the 2003/53/EC Directive.

## SAFETY INSTRUCTIONS FOR PREPARATION AND INSTALLATION

**Topcem Pronto** contains cement that, when in contact with sweat or other bodily fluids, produces an irritant alkaline reaction. Wear protective clothing, gloves and eye/face protection.

For further information refer to the Safety Data Sheet.

PRODUCT FOR PROFESSIONAL USE.

## WARNING

*Although the technical details and recommendations contained in this report correspond to the best of our knowledge and experience, all the above information must, in every case be taken as merely indicative and subject to confirmation after long-term practical applications; for this reason, anyone who intends to use the product must ensure beforehand that it is suitable for the envisaged application. In every case, the user alone is fully responsible for any consequences deriving from the use of the product.*



This symbol is used to identify Mapei products which give off a low level of volatile organic compounds (VOC) as certified by GEV (Gesellschaft Emissionskontrollierte Verlegewerkstoffe, Klebstoffe und Bauprodukte e.V.), an international organisation for controlling the level of emissions from products used for floors.



**Our Commitment To The Environment**  
More than 150 MAPEI products assist Project Designers and Contractors create innovative LEED (The Leadership in Energy and Environmental Design) certified projects, in compliance with the U.S. Green Building Council.

**All relevant references  
for the product are available  
upon request and from  
[www.mapei.com](http://www.mapei.com)**

**TECHNICAL DATA (typical values)**

Conformity with:

– European EN 13813 CT - C30 - F6 - A1<sub>fl</sub>**PRODUCT IDENTIFICATION**

<b>Consistency:</b>	powder
<b>Colour:</b>	grey
<b>Bulk density (kg/m<sup>3</sup>):</b>	1,500
<b>Dry solids content (%):</b>	100
<b>Storage:</b>	12 months in a dry place in original sealed packaging
<b>Hazard classification according to EC 1999/45:</b>	irritant. Before using refer to the “Safety Instructions for preparation and application” paragraph and the information on the packaging and Safety Data Sheet
<b>EMICODE:</b>	EC1 R - extremely low emission level
<b>Customs class:</b>	3824 50 90

**APPLICATION DATA (at +23°C - 50% R.H.)**

<b>Mix ratio:</b>	1.7 l of water per 25 kg of <b>Topcem Pronto</b>
<b>Density of the mix (kg/m<sup>3</sup>):</b>	2,100, depending on compaction
<b>Mixing time:</b>	5 to 10 mins
<b>Workability of the mix:</b>	60 mins
<b>Application temperature range:</b>	from +5°C to +35°C
<b>Set to light foot traffic:</b>	after 12 hours
<b>Waiting time before application of levelling compounds:</b>	1 to 4 days, depending on the type of flooring to be laid

**FINAL PERFORMANCE DATA**

<b>Resistance to moisture:</b>	excellent
<b>Resistance to ageing:</b>	excellent
<b>Resistance to solvents and oils:</b>	excellent
<b>Resistance to acids and alkalis:</b>	poor
<b>Resistance to temperature:</b>	from -30°C to +90°C
<b>Flexibility:</b>	no

Compressive and flexural strength, and resistance to residual moisture	Compressive strength (N/mm <sup>2</sup> )	Flexural strength (N/mm <sup>2</sup> )	Residual moisture (%)
– after 1 day:	> 8	> 3	< 3.5
– after 4 days:	> 15	> 4	< 2.0
– after 7 days:	> 22	> 5	–
– after 28 days:	> 30	> 6	–

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