



Topcem Pronto



**Ready-to-use
normal setting
controlled-shrinkage
mortar for quick-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_{fl} 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 plasticizers.

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 aggregates.

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 aggregates.
- Mix **Topcem Pronto** with the correct amount of water.
- Do not add water to **Topcem Pronto** mix once it has begun to set.
- Do not wet the surface of **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 residues.

Preparing the mix

Topcem Pronto can be mixed in:

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

Mix one 20kg bag of **Topcem Pronto** with 1.4 litres of clean water for at least five 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.) approx. 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 joints 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 40 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 Services Department.

Once the substrate has been prepared sufficiently, and immediately before spreading on the **Topcem Pronto** mix, prepare bonding slurry with **Planicrete/Planicrete SP** according to the ratio in the table below. Apply a continuous, even 2-3 mm layer using a large flat brush, a scrubbing brush or a trowel.

To get perfect adhesion, spread **Topcem Pronto** on the slurry while it is still fresh (fresh on fresh technique).

If the floor is subjected to high mechanical stresses, the construction joint must be made by replacing the **Planicrete/Planicrete SP** cementitious bonding slurry with **Eporip**.

Spread on **Topcem Pronto** using the same method described above.

MIXING RATIO for Planicrete and Planicrete SP cementitious slurries:

Planicrete:	1 part in weight
Water	1 part in weight
Topcem:	3 parts in weight OR

Planicrete SP:	2 parts in weight
Topcem:	3 parts in weight

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/m² per cm of thickness, depending on compaction.

Cleaning

Clean tools with water.

PACKAGING

Topcem Pronto is available in 20kg bags.

STORAGE

Topcem Pronto is stable for at least 12 months when stored in a dry, elevated area.

SAFETY INSTRUCTIONS FOR PREPARATION AND INSTALLATION

Topcem contains cement that when in contact with sweat or other body fluids causes irritant alkaline reactions and allergic reactions to those predisposed.

During use wear protective gloves and goggles and take the usual precautions for handling chemicals.

If the product comes in contact with the eyes or skin, wash immediately with plenty of water and seek medical attention.

TECHNICAL DATA (typical values)

Conformity with:

– European EN 13813 CT-C30-F6-A1_{fl}**PRODUCT IDENTITY**

Consistency:	powder
Colour:	grey
Bulk density (kg/m³):	1,500
Dry solids content (%):	100
Green Star™:	contributes valuable points towards Green Star™ credits

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

Mix ratio:	1.4 litres of water per 20 kg of Topcem Pronto
Density of the mix (kg/m³):	2100 depending on compaction
Mixing time:	5 to 10 mins
Workability of the mix:	60 mins
Application temperature range:	from +5°C to +35°C
Set to light foot traffic:	after 12 hours
Waiting time before application of levelling compounds:	from 1 to 4 days, depending on the type of flooring to be laid

FINAL PERFORMANCE DATA

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

Compressive and flexural strength, and resistance to residual moisture	Compressive strength (N/mm²)	Flexural strength (N/mm²)	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	–

Notes: the samples used for the strength tests are prepared according to EN 13892-1 standards by following a manual procedure so that the mortar becomes as compact as possible.

Topcem Pronto



For further and complete information about the safe use of our product please refer to the latest version of our Safety Data Sheet.

PRODUCT FOR PROFESSIONAL USE.

WARNING

Although the technical details and recommendations contained in this product data sheet 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 application; 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.

Please refer to the current version of the Technical Data Sheet, available from our website www.mapei.com.au



**All relevant references
for the product are available
upon request and from
www.mapei.com.au**

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