



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 25-kg bag of Topcem Pronto with 1.7 l of 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 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 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 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 cementitious bonding slurry with Eporip.

Spread on Topcem Pronto using the same method described above.

Mixing ratio for Planicrete cementitious slurry

Planicrete: 1 part in weight;

Water: 1 part 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 25 kg bags.

STORAGE

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

The product complies with the conditions of Annex XVII to Regulation (EC) N° 1907/2006 (REACH), item 47.

SAFETY INSTRUCTIONS FOR PREPARATION AND INSTALLATION

Topcem Pronto is irritant, it contains cement that when in contact with sweat or other body fluids causes irritant alkaline reaction and allergic reactions to those predisposed. It can cause damage to eyes.

It is recommended to use protective gloves and goggles and to take the usual precautions for handling chemical products. In case of contact with 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_f**PRODUCT IDENTITY**

Consistency:	powder
Colour:	grey
Bulk density (kg/m³):	1,500
Dry solids content (%):	100
EMICODE:	EC1 R Plus - extremely low emission level

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

Mix ratio:	1.7 l of water per 25 kg of Topcem Pronto
Density of the mix (kg/m³):	2,100 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/mm ²)	Flexural strength (N/mm ²)	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 Material 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



This symbol is used to identify Mapei products which give off a low level of volatile organic compounds (VOC) as certified by GEV (Gemeinschaft 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
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



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