MAPECEM PRONTO

Pre-blended, quick-setting and drying (24 hours), controlled-shrinkage mortar for screeds

CLASSIFICATION ACCORDING TO EN 13813

Screeds made using **Mapecem Pronto** according to the specifications in this Technical Data Sheet are classified as CT - C60 - F10 - $A1_{FL}$ in accordance with European Standard EN 13813.

WHERE TO USE

Internal and external floating and bonded screeds on old and new floor slabs, for installing wood, PVC, linoleum, carpet, ceramic, natural stone and any other type of floor covering where quick drying is required for immediate installation of the floor covering.

Some application examples

- Screeds ready for foot traffic after 2-3 hours, and dry after 24 hours.
- Screeds on which it is possible to install ceramic tiles after 3-4 hours.
- Screeds on which it is possible to install PVC, linoleum, wood and natural and artificial stone materials after only 24 hours (residual moisture lower than 2%).
- Repairs and renovation of screeds in areas subject to continuous traffic (e.g. supermarkets, hospitals, airports, etc.).
- Screeds incorporating heating systems, without adding plasticizers.

TECHNICAL CHARACTERISTICS

Mapecem Pronto is a pre-blended, quick-setting and drying, controlled-shrinkage mortar with a special hydraulic binder base, admixtures and selected aggregates to be mixed with water.
Mapecem Pronto is extremely easy to use, in that it is simply mixed with water. This means that human error due to incorrect dosage of the binder and choice of aggregates is avoided, which could compromise the final characteristics of the screed once it has set.
Mapecem Pronto is the ideal solution where finding good quality inert material of the correct grade is difficult, or in the case of installations in areas, such as historical town centres, where transportation and preparation of the blend with traditional binders becomes problematic.

RECOMMENDATIONS

- Do not use **Mapecem Pronto** on screeds subject to rising damp (lay a vapour barrier).
- Do not mix **Mapecem Pronto** with other binders (e.g. **Mapecem**, **Topcem**, cement, lime, gypsum, etc.) or aggregates.
- Mix **Mapecem Pronto** with the correct amount of water.
- Do not add water and do not re-mix mortar prepared using **Mapecem Pronto** if it has already started to set.
- Do not wet the surface of screeds made using **Mapecem Pronto**.
- Do not mix in cement plants or transport the product in cement trucks: the setting time of **Mapecem Pronto** is too short.

HOW TO USE

Preparation of the substrate

All types of substrate are suitable for installing screeds made using **Mapecem Pronto**.
In those cases where quick drying is required, if there is moisture present in the substrate, screeds made using **Mapecem Pronto** must be insulated with a suitable vapour barrier, and floor coverings subject to foot traffic must be at least 35 mm thick.
For screeds bonded to the substrate (thicknesses lower than 35 mm), check beforehand that they are dry and free of cracks, powder, loose parts, paint, wax, oil and traces of grease.

Preparation of the mix

Mapecem Pronto mix may be prepared with one of the following:

- Paddle mixers.
- Normal job site mixers.
- Screw mixers.

Mix a 20 kg bag of **Mapecem Pronto** with 1.4 - 1.6 l of water for 3 - 4 minutes.
The amount of water must not be modified for any reason, otherwise the final performance characteristics will be compromised.
Tamp and float the mix until a smooth, closed, surface without residual water is obtained.
Each mix must be poured and tamped as quickly as possible, and after no more than 30 minutes from the start of preparation.
The surrounding temperature influences the setting and drying times of screeds made using **Mapecem Pronto**.

FLOATING SCREEDS

(thickness from 35 to 60 mm)

Mapecem Pronto mix must be installed on an uncoupling layer made up of polythene sheets or a similar material in order to allow for movement between the screed and the existing substrate. In case of rising damp, the aforementioned uncoupling layer must be formed using a sufficiently waterproof membrane to form an efficient vapour barrier.
The areas of **Mapecem Pronto** screed which have pipe-work running through them must be reinforced by positioning light, metallic reinforcement (e.g. electro-welded hexagonal mesh).
The installation of screeds made with **Mapecem Pronto** is carried out using the same technique as for cementitious screeds. Prepare a series of level guides, spread the mix and tamp thoroughly before finishing off with a float, to obtain a better surface finish.
Around the perimeter of the room and around columns which run through the floor, it is good practice to place 1 cm-thick insulating material (such as polystyrene, cork, etc.) before casting.
If work is interrupted, cut the screed perpendicularly to the substrate and insert a series of 3 - 6 mm diameter, 20 - 30 cm-long steel rods in the screed at a pitch of 20 - 30 cm. This operation will guarantee a good weld between the construction joints, and avoid cracking and uneven joints.

BONDED SCREEDS

(thickness up to 40 mm)

Screeds with a lower thickness must be bonded to the substrate, which may be either a cementitious type or made up of existing flooring in ceramic or stone material. If another type of substrate is present, please consult the MAPEI Technical Services Department.
Once the substrate has been prepared sufficiently, and immediately before spreading **Mapecem Pronto** mix, prepare a 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 **Mapecem Pronto** on the slurry while it is still fresh (wet on wet technique).
If the floor is subject to high mechanical stresses, the construction joint must be made by replacing **Planicrete** cementitious bonding slurry with **Mapepoxy BI-IMP**.

Spread **Mapecem Pronto** using the same method described above.

Mixing ratio for Planicrete cementitious slurry

Planicrete:	1 part by weight
Water:	1 part by weight
Mapecem Pronto:	2 parts by weight

MEASURING MOISTURE CONTENT

Measurements of the residual moisture using an electronic hygrometer give values which are for indication purposes only. Therefore, to measure the level of residual moisture, it is necessary to use a carbide hygrometer.

CONSUMPTION

The consumption of **Mapecem Pronto** is approximately 20 kg/m² per cm of thickness, according to how much tamping is carried out.

CLEANING

Tools may be cleaned using water.

PACKAGING

Mapecem Pronto is available in 20 kg bags.

STORAGE

Mapecem Pronto remains stable for at least 12 months if stored in a dry place.

SAFETY INSTRUCTIONS FOR THE PREPARATION AND APPLICATION

Instructions for the safe use of our products can be found on the latest version of the Safety Data Sheet, available from our website www.mapei.no.

PRODUCT FOR PROFESSIONAL USE.

TECHNICAL DATA (typical values)

Complies with standard: – European EN 13813 CT - C60 - F10 - $A1_{FL}$

PRODUCT IDENTITY	
Consistency:	powder
Colour:	grey
Bulk density:	1800 kg/m³
Dry solids content:	100 %
Maximum size of the aggregate:	2.8 mm
EMICODE:	EC1 Plus - very low emission

APPLICATION DATA (at +23°C - 50% R.H.)	
Mixing ratio:	1.4 - 1.6 l of water for each 20 kg bag of **Mapecem Pronto**
Density of the mix:	approx. 2,200 kg/cm³
Mixing time:	3 - 4 minutes
Pot life of mix:	20 - 30 minutes
Application temperature range:	from +5°C to +35°C
Set to light foot traffic:	after 2 - 3 hours
Ready for use:	24 hours
Waiting time before levelling:	after 4 hours
Waiting time before installation:	3 - 4 hours for ceramic and natural stone; 24 hours for resilient materials and wood
Residual moisture after 24 hours:	< 2 %

FINAL PERFORMANCE	
Thermal conductivity according to UNI 10351:2021:	λ = approximately 1.4 W/mK (tabulated value)
Resistance to acids:	fair
Resistance to alkalis:	excellent
Resistance to oils:	excellent
Resistance to solvents:	excellent
In-service temperature range:	from -30°C to +90°C
Mechanical strength:	see table below

Compressive and flexural strength, and resistance to residual moisture	Compressive strength	Flexural strength	Residual moisture
– after 1 day:	> 40 N/mm²	> 6 N/mm²	< 2.0 %
– after 3 days:	> 50 N/mm²	> 7 N/mm²	< 1.6 %
– after 28 days:	> 62 N/mm²	> 10 N/mm²	< 1.5 %

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.no

LEGAL NOTICE

The contents of this Technical Data Sheet ("TDS") may be copied into another project-related document, but the resulting document shall not supplement or replace requirements per the TDS in force at the time of the MAPEI product installation.
The most up-to-date TDS can be downloaded from our website www.mapei.com.

ANY ALTERATION TO THE WORDING OR REQUIREMENTS CONTAINED OR DERIVED FROM THIS TDS EXCLUDES THE RESPONSIBILITY OF MAPEI.

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