

# MAPECEM PRONTO

Pre-blended, ready-to-use, 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 - A1FL in accordance with European Standard EN 13813

## WHERE TO USE

Internal and external unbonded, floating, and bonded screeds on old and new floor slabs, for laying wood, PVC, linoleum, carpet, ceramic, natural stone and any other type of floorcovering where quick drying is required for immediate laying 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 lay ceramic and natural stone after 3-4 hours.
- Screeds on which it is possible to lay PVC, linoleum, wood and moisture sensitive natural and artificial stone materials after only 24 hours (residual moisture lower than 2% with the carbide method, below 5% moisture content with electrical resistance and below 80% of R.H. as per ASTM-F2170).
- Repairs and renovation of screeds in areas subject to continuous traffic (e.g. supermarkets, hospitals, airports, etc.).
- Screeds incorporating heating systems, without adding plasticisers.

## TECHNICAL CHARACTERISTICS

**Mapecem Pronto** is a pre-blended, ready-to-use, 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 aggregate 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

- For ceramic and stone installations, in the case of rising damp, provide a suitable waterproofing membrane.
- Waterproof with a Mapei waterproofing membrane after 4 hours.
- 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.
- For resilient installations, relative humidity and pH level readings must be carried out on the concrete substrate in accordance with AS 1884. If required, a moisture vapour barrier (such as **Primer MF** or **Mapeproof 1K Turbo**) should be applied above the screed.
- It is recommended to incorporate saw cuts to one third of the depth of the screed thickness when installing large bay sizes.
- 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**.
- Blended **Mapecem Pronto** cannot be transported as it is a fast set product.

## HOW TO USE

### Preparation of the substrate

For an unbonded or floating application, all substrates are suitable for receiving a **Mapecem Pronto** screed. Isolate the substrate with a sheet of polyethylene or similar.

For bonded screeds, check beforehand that they are dry and free of cracks, powder, loose parts, paint, wax, oil and traces of grease. Existing joints in the substrate must be carried through the screed.

### Preparation of the mix

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

- paddle mixer
- drum mixer
- forced action mixer

Mix a 20 kg bag of **Mapecem Pronto** with 1.5-1.7 litres 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**.

## UNBONDED SCREEDS

### (35 - 70 mm thick)

**Mapecem Pronto** mix must be laid on an isolating layer made up of polythene sheets or a similar material in order to allow for movement between the screed and the existing substrate.

The laying of screeds made by **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 isolating material (such as polystyrene, cork, etc.) before casting.

On compressible substrates, areas with piping, or thicknesses which exceed 60 mm, incorporate galvanised metal reinforcement in accordance with AS 3958.1.

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.

## FLOATING SCREEDS

### (55 - 70 mm thick)

The screed mix is prepared and applied in the same way as an unbonded screed.

The difference is that floating screeds include insulation or heating systems.

The insulation should have a high resistance to compression and not depress more than 3 mm under the anticipated final load.

Where underfloor heating pipes are incorporated, they should be located a minimum of 25 mm below the surface of the screed. Additionally reinforcing mesh should be placed over the pipes. This can be reduced to 15 mm for residential installations.

The underfloor heating may be commissioned after 4 days.

## BONDED SCREEDS

### (10 - 70 mm thick)

Once the substrate has been prepared sufficiently, and immediately before spreading on the **Mapecem Pronto** mix, prepare a bonding slurry with **Planicrete SP** prepared as described 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 (fresh on fresh technique).

If the floor is subjected to high mechanical stresses, the construction joint must be made by replacing the **Planicrete SP** cementitious bonding slurry with **Eporip**. Spread on the **Mapecem Pronto** using the same method described above.

For thicknesses over 50 mm, it is recommended to incorporate galvanised metal reinforcement in accordance with AS 3958.1.

### MIXING RATIOS FOR PLANICRETE SP BONDING SLURRY:

**Planicrete SP**: 1 part in weight

Mapecem: 1 part in 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/m<sup>2</sup> per cm of thickness, according to how much compaction 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

For further and complete information about the safe use of our product, please refer to the latest version of our Safety Data Sheet available from our website at [www.mapei.com.au](http://www.mapei.com.au).

PRODUCT FOR PROFESSIONAL USE.

<b>TECHNICAL DATA (typical values) Conforms to Standard:</b> – European EN 13813 CT - C60 - F10 - A1 <sub>FL</sub>	
<b>PRODUCT IDENTITY</b>	
Consistency:	powder
Colour:	grey
Bulk density (kg/m <sup>3</sup> ):	1800
Dry solids content (%):	100
<b>APPLICATION DATA (at +23°C - 50% R.H.)</b>	
Mixing ratio:	1.5-1.7 l of water for each 20 kg bag of <b>Mapecem Pronto</b>
Density of the mix (kg/m <sup>3</sup> ):	approx. 2200
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
<b>FINAL PERFORMANCES</b>	
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

Time	Compressive strength (N/mm <sup>2</sup> )	Flexural strength (N/mm <sup>2</sup> )	Residual moisture (%)
– after 1 day:	> 40	> 6	< 2.0
– after 3 days:	> 50	> 7	< 1.6

- after 28 days:	> 62	> 10	< 1.5
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## 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 at [www.mapei.com.au](http://www.mapei.com.au)**

## LEGAL NOTICE

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