

# MAPECEM PRONTO 600

Pre-blended, ready-to-use, fast curing mortar for indoor screeds



## DESCRIPTION OF THE PRODUCT

**Mapecem Pronto 600** is a pre-blended, ready-to-use, low alkaline, fast curing mortar for screeds with a special hydraulic binder base, admixtures and selected aggregates. Layer thickness 10 - 250 mm.

**Mapecem Pronto 600** is CE marked and classified as CT - C30 - F5 - A1<sub>F,L</sub> in accordance with EN 13813.

## WHERE TO USE

- Internal bonded screeds on old and new floor slabs before installing floating wood flooring, ceramic and natural stone where quick drying is required for immediate laying of the floor covering.
- Floating screeds on old and new floor slabs before installing floating wood flooring, ceramic and natural stone where quick drying is required for immediate laying of the floor covering.

## Some application examples

- Screeds with inclines e.g. in bathrooms.
- Screeds ready for coverings 1 - 7 days.
- Screeds incorporating heating systems, without adding plasticizers.

## RECOMMENDATIONS

- Do not use **Mapecem Pronto 600** on screeds subject to rising damp (lay a vapour barrier).
- Do not use **Mapecem Pronto 600** on concrete floors with Relative Humidity higher than 90 % RH.
- Do not mix **Mapecem Pronto 600** with other binders (e.g. **Mapecem**, **Mapecem Pronto**, **Topcem**, cement, lime, gypsum, etc.) or aggregates.
- Do not mix **Mapecem Pronto 600** with excess of water. Use the correct amount of water.
- Do not add water to **Mapecem Pronto 600** or re-mix if it has already started to set.
- Do not use **Mapecem Pronto 600** as final wearing layer.
- Do not use **Mapecem Pronto 600** direct as underlayment for glued parquet, solid hardwood flooring, PVC, linoleum, carpets or resin flooring.

# INSTRUCTIONS FOR USE

## Internal bonded screeds

### Substrate

**Mapecem Pronto 600** can be used on concrete and other cement-based substrates with a tensile strength of  $> 0.5 \text{ N/mm}^2$  (MPa) and plasterboard. Concrete and other cement-based substrates must be dry and free of cracks, dust, loose particles, paint, wax, oil, traces of grease and any other impurities that can reduce adhesion. Other substrates must be cleaned of all materials which can reduce adhesion. For any other type of substrate, please consult the MAPEI Technical Services Department.

### Preparation of the concrete other cement-based substrates

The surface must be clean and thoroughly vacuumed before applying primer. Always apply **Primer G**, **Primer Eco** or **Eco Prim T Plus** according to instructions in respective technical data sheets.

## Floating screeds

### Substrate

Floating screeds need to be installed for substrates with insufficient stability and/or with low adhesion (tensile strength of  $< 0.5 \text{ N/mm}^2$  (MPa), such as weak concrete, wood, bitumen insulation or insulation layers.

**Mapecem Pronto 600** 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. In case of rising damp, the aforementioned isolating layer must be formed using a sufficiently waterproof membrane to form an efficient vapour barrier.

The areas of the **Mapecem Pronto 600** screed which have pipe-work running through them must be reinforced by positioning a light, metallic reinforcement (e.g. electro-welded hexagonal mesh). 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.

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 in order to avoid cracking and uneven joints.

Thickness for floating floor needs be designed dependent on the type of substrate and designed loads. Normal thickness is 30 - 250 mm.

## Preparation of the mix

Mix a 20 kg bag of **Mapecem Pronto 600** with approx. 1.6 - 1.8 litres of clean water (8 - 9 % of dry powder weight). Mix for at least 3 - 4 minutes with a powerful drill whisk. Working time of the mixture is approx. 20 - 30 minutes after adding water. The temperature of the mix must be  $> +10^\circ\text{C}$ . In colder conditions it is recommended to mix with warm water (max.  $+35^\circ\text{C}$ ).

The amount of water must not be modified for any reason, otherwise the final performance characteristics will be compromised.

## Application of the product

Once the substrate has been prepared sufficiently, spread **Mapecem Pronto 600** using a steel trowel. Tamp 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 substrate- and ambient air temperature of the work area before and during application, and a week thereafter must be between  $+10^\circ\text{C}$  and  $+25^\circ\text{C}$ . The surrounding temperature influences the setting- and drying times of screeds made using **Mapecem Pronto 600**.

## Installation of coverings

After curing waterproofing membrane can be installed after approx. 3 hours, and installation of ceramic or natural stone can be done after 15 hours.

Other floor coverings, textile coverings and tiles can be laid on **Ultraplan Zero**. Floor coverings, textile coverings, tiles, natural stone and glued parquet can be laid on **Uniplan 250 Zero**. For resin floors, use **Plan R 140**.

# CONSUMPTION

The consumption of **Mapecem Pronto 600** is approximately  $18 \text{ kg/m}^2$  per cm of thickness.

## CLEANING

Tools and machinery may be cleaned using water. Hardened material must be removed mechanically.

## PACKAGING

Mapecem Pronto 600 is available in 20 kg bags.

## STORAGE

Mapecem Pronto 600 remains stable for at least 12 months if stored in a dry place.

## SAFETY INSTRUCTIONS FOR PREPARATION AND INSTALLATION

Instructions for the safe use of our products can be found on the latest version of the SDS available from our website [www.mapei.no](http://www.mapei.no)

PRODUCT FOR PROFESSIONAL USE.

## TECHNICAL DATA (typical values)

Conforms to Standard: – European EN 13813 CT - C30 - F5 - A1<sub>FL</sub>

### PRODUCT IDENTITY

Consistency:	powder
Colour:	grey
Bulk density:	approx. 1600 kg/m <sup>3</sup>
Dry solids content:	100 %
EMICODE:	EC1 Plus - very low emission

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

Mixing ratio:	1.6 - 1.8 l of water per 20 kg bag Mapecem Pronto 600
Density of the mix:	approx. 1,900 kg/cm <sup>3</sup>
Mixing time:	3 - 4 minutes
Pot life of mix:	20 - 30 minutes
Application temperature range:	from +10°C to +35°C
Set to light foot traffic:	after 2 - 3 hours
Waiting time before installing waterproofing membrane:	after 3 hours
Waiting time before installing ceramics or natural stone:	after 15 hours

### FINAL PERFORMANCE

Reaction to fire (EN 13501-1):	A1 <sub>FL</sub>
Compressive strength after 28 days (EN 13892-2):	35.0 (C30) N/mm <sup>2</sup> (MPa)
Tensile strength after 28 days (EN 13892-2):	5.0 (F5) N/mm <sup>2</sup> (MPa)
Shrinkage (EN 13454-2/EN 13872) (< 10 mm):	< 0.4 mm/m
pH of cured material:	< 11 low alkaline

## 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 web site [www.mapei.no](http://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 effect at the time of the MAPEI product installation. For the most up-to-date TDS and warranty information, please visit our website at [www.mapei.no](http://www.mapei.no)*

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