

MAPECEM MARINE 1000

Ready to use, shrinkage compensated, lightweight cementitious screed for levelling off internal decks



WHERE TO USE

Mapecem Marine 1000 is used to level off internal decks on ships before bonding floor coverings (tiles, resilient, resin-based, etc.).

Mapecem Marine 1000 is tested according to the FTP Code system and approved according to International Maritime Organisation (IMO) directives.

TECHNICAL CHARACTERISTICS

Mapecem Marine 1000 is a ready to use, shrinkage compensated, rapid setting and drying mortar made from special binders and selected aggregates and is applied in layers up to 50 mm thick.

Mix **Mapecem Marine 1000** with water before use. The mix has a semi-fluid consistency and must be applied as soon as possible after mixing and within a maximum of 30 minutes from the start of preparation.

RECOMMENDATIONS

- The temperature of the mixing water must be between +5°C and +35°C. When the surrounding temperature is high, up to around +35°C, using cooler mixing water helps with application of the product, but the temperature of the water must always be within the limits specified.
- Do not add water to the mix once it starts to set.
- Do not add lime, cement, gypsum or any other type of substance or compound.
- Do not use for external applications.
- Only apply the product on surfaces treated with **Eco Prim Marine**, which must be dry when the product is applied.
- Do not use the product at temperatures lower than +5°C.

APPLICATION PROCEDURE

Preparation of the bonding surface

Remove all traces of oil, grease, rust, paint, dust, crumbling material and any other compounds or substances from the bonding surface which could affect adhesion.

Apply **Eco Prim Marine** with a roller and/or brush. Prepare the surface with a power tools, remove all dust and make sure it is clean and dry. Make sure the product is applied in an even coat: the primer is black to make it easier to apply and to avoid leaving areas without enough product. It is just as important to avoid applying too much primer: both conditions (layers too thin or too thick) could lead to detachment of the layer of **Mapecem Marine 1000**.

When **Eco Prim Marine** is dry (approximately 35-40 minutes) apply **Mapecem Marine 1000**.

Preparation of the mix

Pour a 15 kg bag of **Mapecem Marine 1000** in a container with 2.5 liters of clean water and mix thoroughly with an electric mixer at low speed to form a smooth, compact paste. The mix must be applied and floated as soon as possible after mixing and within a maximum of 30 minutes from the start of preparation. Use only the recommended quantity of mixing water otherwise its final performance characteristics could be affected.

The surrounding temperature has an influence on the setting and drying times of screeds made from **Mapecem Marine 1000**: temperatures above +23°C reduce the workability of the mortar.

Application

Spread **Mapecem Marine 1000** in a single layer from 5 to 50 mm thick over dry **Eco Prim Marine** with a metal trowel or spreader. Check the consumption rate of the product while spreading to make sure the thickness required is applied. If a second layer is required, apply **Eco Prim Marine** once again as adhesion promoter, after the primer has dried. **Mapecem Marine 1000** is suitable for bonding various types of floor covering. Always adhere to the specified drying time of the product:

- **2 days** for resilient and textile floor covering, stone sensitive to moisture, resin and wood;
- **after 24 hours at +23°C** for ceramic flooring.

Drying times vary according to the thickness of mortar applied, the surrounding temperature and the level of humidity in the environment. It is necessary to bonding the fresh product to the hardened one using the two-component epoxy adhesive **Eporip**.

CLEANING

Remove **Mapecem Marine 1000** from hands and tools while still wet with water.

CONSUMPTION

Consumption of **Mapecem Marine 1000** is 1.1 kg/m² per mm of thickness.

STORAGE

Mapecem Marine 1000 remains stable for 12 months if stored in a dry place. If stored for longer than 12 months it may take longer to set but without affecting its final characteristics.

This product complies with the prescriptions of Reg. (EC) N. 1907/2006 (REACH) - Annex XVII, item 47.

CERTIFICATION

Mapecem Marine 1000 is certified: "**non combustible**" according to *IMO A799(19) Res. 61(67) FTPC Annex 1, Part 1 and Annex 2.*

PACKAGING

Mapecem Marine 1000 is supplied in 15 kg bags.

SAFETY INSTRUCTIONS FOR 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.com.

PRODUCT FOR PROFESSIONAL USE.

TECHNICAL DATA (typical values)	
PRODUCT IDENTITY	
Consistency:	powder
Colour:	greyish brown
Bulk density (kg/m ³):	800
Dry solids content (%):	100
APPLICATION DATA (at +23°C and 50% R.H.)	

Mixing ratio:	2.5 liters of water per 15 kg Mapecem Marine 1000
Applied thickness per layer:	from 5 to 50 mm
Density of mix (kg/m ³):	1250
pH of mix:	approx. 11
Application temperature:	from +5°C to +35°C
Workability time:	20-30 minutes
Setting time:	45-60 minutes
Set to foot traffic:	3 hours
Waiting time before bonding flooring:	– 24 hours for ceramics – 2 days for resilient and textile floor covering, stone sensitive to moisture, resin and wood
FINAL PERFORMANCE	
Compressive strength (N/mm ²): – after 1 day: – after 7 days: – after 28 days:	12 16 20
Flexural strength (N/mm ²): – after 1 day: – after 7 days: – after 28 days:	2.5 3 4
Density of hardened product (kg/m ³):	950-1100
CERTIFICATION	
Ris IMO A 799 (19) ris MSC.61(67) Annex 1, Part 1 and Annex 2	non combustible

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

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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