

MAPECEM MARINE HYBRID

Low density, ready-mixed, hybrid polymer-cement system suitable for internal areas exposed to intense traffic and/or with the presence of water



WHERE TO USE

Mapecem Marine Hybrid is used for levelling off internal decks on ships before installing floor coverings (tiles, resilients, resin, etc.).

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

TECHNICAL CHARACTERISTICS

Mapecem Marine Hybrid is used to form lightweight base layers up to 100 mm thick in particularly critical areas such as: kitchens, spa centres, bathrooms, saunas, etc.

May be applied in layers up to 50 mm thick.

If a thicker amount is required it is recommended to apply the product in several layers.

Mapecem Marine Hybrid is made up of **Mapecem Marine 1000** and **Hydrogel Marine** which need to be mixed together prior to application. The mix obtained has a semi-fluid consistency and must be applied as soon as possible after mixing and, in all cases, within a maximum of 30 minutes from the start of preparation.

RECOMMENDATIONS

- Do not add water to the mix.
- 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 application surface

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

Apply a thin, even coat of **Eco Prim Marine** on the clean, dry surface with a brush or roller without leaving pools of primer on the surface. When the **Eco Prim Marine** is dry (approximately 35÷40 minutes) apply the **Mapecem Marine Hybrid**.

PREPARATION OF THE MIX

Pour a 3 kg bag of **Hydrogel Marine** into a container and then add a 15 kg bag of **Mapecem Marine 1000** while mixing. Keep mixing with an electric mixer at low speed to form a smooth, compact mix.

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. Do not modify the amount of **Hydrogel Marine** added to the mix; the product's final performance properties could be affected.

Temperatures above +23°C extend the product's open time; it is good practice to only mix quantities of **Mapecem Marine Hybrid** that will be applied within 30 minutes.

APPLICATION

Spread a layer of **Mapecem Marine Hybrid** between 5 and 50 mm thick over the dry **Eco Prim Marine** with a metal trowel or rake. Check the consumption rate of the product while spreading to make sure only the thickness required is applied. If a second layer is required, as soon as the first one has set to foot traffic, apply another coat of **Eco Prim Marine** beforehand to act as an adhesion promoter.

Mapecem Marine Hybrid is suitable for bonding various types of floor covering. Always make sure the various drying times of the product are respected (the drying times below refer to a surrounding temperature of +23°C and 50% R.H.):

- 2 days: stone sensitive to moisture, resin and wood;
- 24 hours at +23°C: ceramic;
- before bonding resilients and textiles, it is recommended to apply a layer of **Planiprep Fast Track** to form a more even surface.

These times may vary depending on the thickness of product applied, the characteristics of the installation surface and the surrounding temperature and level of humidity.

CLEANING

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

CONSUMPTION

2.7 m² for a 5 mm layer for each **Mapecem Marine Hybrid** kit.

STORAGE

Mapecem Marine Hybrid 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 conforms to the prescriptions of Reg. (EC) N. 1907/2006 (REACH) – Annex XVII, item 47.

CERTIFICATION

Mapecem Marine Hybrid is certified as: *“non-combustible material”* according to IMO A799 (19) Res. 61(67) FTPC annex 1, part 1 and annex 2.

PACKAGING

Mapecem Marine Hybrid is supplied in kits containing:

- **Mapecem Marine 1000**: 15 kg bag;
- **Hydrogel Marine**: 3 kg can.

SAFETY INSTRUCTIONS FOR HANDLING MAPECEM MARINE HYBRID

This product contains cement that when in contact with sweat or other body fluids causes irritant alkaline reactions and allergic reactions to those predisposed. It can cause damage to eyes. If the product comes in contact with the eyes, wash immediately with plenty of clean water and seek medical attention. It is recommended to use protective gloves and goggles.

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.

TECHNICAL DATA (typical values)	
PRODUCT IDENTITY	
Mapecem Marine 1000	
Consistency:	powder

Colour:	grey-brown
Bulk density (kg/m ³):	800
Dry solids content (%):	100
Hydrogel Marine	
Consistency:	thick
Colour:	blue
pH:	6 ± 0.5
APPLICATION DATA (at +23°C and 50% R.H.)	
Thickness applied per layer:	5 to 50 mm
Density of mix (kg/m ³):	1350
pH of mix:	approx. 11
Application temperature:	+5°C to +35°C
Workability time:	20-30 mins.
Setting time:	45-60 mins.
Set to foot traffic:	3 hours
Waiting time before bonding:	24 hours for ceramics 2 days for resin, natural stone and wood
FINAL PERFORMANCE with 17% Hydrogel Marine	
Compressive strength (N/mm ²): - after 1 day: - after 7 days: - after 28 days:	18 22 25
Flexural strength (N/mm ²): - after 1 day: - after 7 days: - after 28 days:	3 5 6
Density of dry product (kg/m ³):	1250 ± 50
CERTIFICATION	
Ris IMO A 799(19) ris. MSC 61(67) annex 1, part 1 and annex 2	non combustible material
Primary deck covering	CT-C7-F4

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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