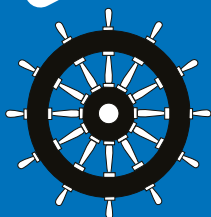




Mapeddeck Epofloor



0474

Seamless waterproof self-extinguishing resin coating for internal decks on ships

WHERE TO USE

Mapeddeck Epofloor is suitable for creating self-levelling or multi-layered, self-extinguishing resin coatings on internal decks on ships.

TECHNICAL CHARACTERISTICS

Mapeddeck Epofloor is a two-component, nonylphenol-free, coloured, fillerized, epoxy-resin based formulation with 100% solids content according to a formula developed in the MAPEI R&D laboratories.

Mapeddeck Epofloor is highly versatile and is applied in layers up to 3 mm thick to form seamless coatings with an attractive finish and good resistance to chemicals and abrasion. The product is suitable for both "self-levelling" and "multi-layered" coating systems.

RECOMMENDATIONS

- Do not dilute **Mapeddeck Epofloor** with solvent or water.
- Do not apply on surfaces with oil or grease stains or with dirt in general.
- Do not apply on dusty or crumbling surfaces or on surfaces with detached areas.
- Do not apply on cementitious substrates that have not been prepared as specified with skimming compound and relative broadcasting of quartz sand.

- Do not expose the mixed product to sources of heat.
- Do not apply directly on cementitious substrates with more than 4% moisture content.

APPLICATION PROCEDURE

Preparation of the application surface

Surfaces where the product is to be applied must be dry and clean and have no traces of oil, grease or any other material or substance that could affect adhesion. Cementitious and resin surfaces must be clean, dry and, where required, sanded and thoroughly de-dusted. Apply an even coat of **Mapeddeck Epofloor** mixed with 20-30% in weight of **Quartz 0.5** on the surface with a straight spreader. Broadcast the surface with **Quartz 0.5** while the product is still wet.

Make sure the application surface is compatible with MAPEI products prior to application.

APPLICATION

Mapeddeck Epofloor is a two-component epoxy formulate. The two components must be mixed together just before application. Mix component A thoroughly and add the contents of component B. Mix again with an electric mixer at low speed (300-400 revs/min) to prevent entraining air into the product for at least 2-3 minutes until the mix is completely blended. Do not mix the product for too long to avoid entraining too much air into the mix.

TECHNICAL DATA (typical values)

PRODUCT IDENTITY

	component A	component B
Colour:	neutral	straw-yellow
Consistency:	thick liquid	liquid
Density (g/cm ³):	1.78	1.0
Viscosity at +23°C (mPa·s):	17,000 (# 6 - rpm 20)	200 ÷ 300 (# 2 - rpm 50)

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

Mixing ratio by weight:	80 : 20
Consistency of mix:	fluid
Density of mix (kg/dm ³):	1380
Workability time at +20°C:	35 mins.
Application temperature:	from +8°C to +35°C (refers to the surroundings, material and substrate)
Hardening time at +23°C and 50% R.H.: – set to foot traffic: – final hardening time:	approx. 12 hours 7 days

The times above are for indication purposes only and are influenced by actual site conditions (e.g. temperature of the surroundings and substrate, relative humidity of the surrounding air, etc.).

FINAL PERFORMANCE

Compressive strength (EN 196-1) after 7 days (N/mm ²):	45
Flexural strength (EN 196-1) after 7 days (N/mm ²):	15
Taber Test after 7 days (EN ISO 5470-1) (at +23°C, 50% R.H, 1,000 cycles/1,000 g, CS 17 disk) (mg):	70

CERTIFICATION

IMO Res. IMO Res. 61(67) FTPC Annex 1, Part 2 and Part 5, for applications up to 3.5 mm thick	Surface materials and floor coverings with low flame-spread characteristics- (c) floor coverings
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Apply the mix within the specified open time and keep the surrounding temperature and the temperature of the product under control; temperatures above or below +23°C will reduce or increase the open time indicated in the "APPLICATION DATA" table respectively.

Self-levelling coatings

Apply **Mapedek Epofloor** with a notched steel spreader ("V" shaped notches are recommended) after skimming the surface with **Mapedek Epofloor**. Monitor the consumption rate of the product during application; the consumption rate is 1.4 kg/m² to form a coat with a theoretical average thickness of 1.0 mm.

Go over the surface with a spiked roller several times while the product is still wet to even out the thickness of the coat and to remove any air entrapped in the product.

Multi-layered coatings

After preparing the surface as specified and removing all the dust, add 20-30% by weight of quartz sand (the particle size depends on the degree of surface roughness required) to the mix (components A+B) and apply the product. Broadcast the surface while the product is still wet with quartz sand with a suitable particle size, depending on the degree of surface roughness required. When the product has hardened, remove any excess quartz sand, lightly sand the surface, remove all traces of dust and apply another coat of **Mapedek Epofloor** down to a feather edge with a straight spreader or a squeegee.

Cleaning tools

Clean tools used to prepare and apply **Mapedek Epofloor** with ethanol or thinners immediately after use. Once hardened, the product may only be removed using mechanical means.

PACKAGING

20 kg metal can (A+B):
– component A = 16.0 kg;
– component B = 4 kg.

STORAGE

Store the product in its original packaging in a dry place at a temperature between +5°C and +35°C. Max. 24 months.

CERTIFICATION

Mapedek Epofloor is certified as "Floor coating" according to IMO Res. MSC 307(88) - (2010 FTP Code) MED item: A.1/3 18c.

SAFETY INSTRUCTIONS FOR PREPARATION AND APPLICATION

Mapedek Epofloor part A is irritant for skin and eyes, both part A and part B can cause sensitization if they come in contact with the skin of those subjects predisposed.

Mapedek Epofloor part B is corrosive and can cause burns. The product contains low molecular weight epoxy resins that may cause sensitization if cross-contamination

occurs with other epoxy compounds. When applying the product it is recommended to use protective gloves and goggles and to take the usual precautions for the handling of chemicals. If the product comes in contact with the eyes or skin, wash immediately with plenty of water and seek medical attention. When the product reacts it generates considerable heat. After mixing components A and B, we recommend applying the product as soon as possible and to never leave the container unguarded until it is completely empty.

Mapedek Epofloor part A and B are hazardous for aquatic life. Do not dispose of this product in the environment. For further and complete information about the safe use of our product, please refer to the latest version of our Safety Data Sheet.

PRODUCT ONLY FOR PROFESSIONAL USE.

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.

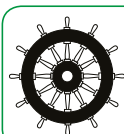
Please refer to the current version of the Technical Data Sheet, available from our website www.mapei.com

LEGAL NOTICE

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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.



This symbol is a conformity mark which proves that the product is suitable for marine equipment in compliance with the Marine Equipment Directive (MED) 96/98/EC and subsequent amendments. For the products with this marking, MAPEI is also allowed to affix the U.S Coast Guard approval number as allowed by the "Agreement between the European Community and the United States of America on mutual recognition of certificates of conformity for marine equipment" signed February 27th, 2004.

All relevant references for the product are available upon request and from www.mapei.com

**Mapeddeck
Epofloor**

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6781-1-2019 (GB)



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