

MAPEDECK EPOFLOOR

Two-component, epoxy coating used to create coloured seamless floor for internal decks on ships



WHERE TO USE

Mapedek EPOFLOOR is suitable for creating selflevelling or multi-layered resin coatings on internal decks on ships.

TECHNICAL CHARACTERISTICS

Mapedek EPOFLOOR is a two-component, nonylphenol-free, coloured, fillerized, epoxy-resin based formulation according to a formula developed in the MAPEI R&D laboratories.

Mapedek EPOFLOOR is highly versatile and is applied in layers up to 3 mm thick to form coloured seamless coatings with good resistance to chemicals, mechanical stress and abrasion. The product is suitable for both “self-levelling” and “multi-layered” coating systems.

RECOMMENDATIONS

- Do not dilute 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 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 substrate

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.

Mapedek EPOFLOOR is applied on epoxy compounds (such as, for example, **Mapedek Eposcreed Lite**). For other types of compounds, verify that the application surface is compatible with **Mapedek EPOFLOOR** before application.

Application

Mapedek EPOFLOOR is a two-component epoxy formulate. The two components must be mixed together at the moment of 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.

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.

Self-levelling coatings

Apply **Mapedek Epofloor** with a notched steel spreader ("V" shaped notches are recommended). Monitor the consumption rate according to the thickness to be realised. 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

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

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

CONSUMPTION

1,4 kg/m² per mm of thickness.

PACKAGING

20 kg metal can (A+B):

- component A = 16 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.

SAFETY INSTRUCTIONS FOR PREPARATION AND APPLICATION

When the product reacts, it generates considerable heat. After mixing components A and B, we recommend applying the product as soon as possible and never leaving the container unattended until it is completely empty.

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

Colour:

Consistency:

Density of mix:

RAL colours

thick liquid

1.38 g/cm³

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



Mixing ratio by weight:	comp. A : comp. B = 80 : 20
Mixing ratio in volume:	comp. A : comp. B = 2.6 : 1
Application temperature:	from + 5°C to + 30°C
Workability time:	35 mins.
Set to foot traffic:	12 hours
Complete hardening time:	7 days

FINAL PERFORMANCE after 7 days	
Shore D Hardness (DIN 53505)	80
Taber test (1000 cycles – 1000 g – CS17)	70 mg
Compressive strength (EN 196-1)	60 N/mm ²
Flexural strength (EN 196-1)	35 N/mm ²

CERTIFICATIONS AND CLASSIFICATIONS	
IMO MED:	Surface materials and floor coverings with low flame-spread characteristics

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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