

MAPEDECK FLEXISCREED

Viscoelastic polyurethane base layer for levelling off internal and external bridge decks on ships



WHERE TO USE

Mapedeck Flexiscreed is used to form a viscoelastic levelling layer before installing floor coverings on internal and external bridge decks on ships.

TECHNICAL CHARACTERISTICS

Mapedeck Flexiscreed is a two-component, epoxy polyurethane resin-based based formulate according to a formula developed in the MAPEI R&D laboratories.

Mapedeck Flexiscreed may be applied in layers up to 20 mm thick and has good mechanical properties and high resistance to chemicals and abrasion.

RECOMMENDATIONS

- Do not dilute the product with solvent or water.
- Do not apply on surfaces with oil stains.
- Do not expose the mixed product to sources of heat.

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 substance that could affect adhesion.

Steel surfaces must be prepared to grade ST3 and treated with a suitable MAPEI S.p.A. adhesion promoter.

APPLICATION

Mapedeck Flexiscreed is a two-component polyurethane product. 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 avoid entraining air into the mix.

Add **Maperubber Black 25** to the mix according to the specified weight ratio and mix again.

Pour the mix into a different container and mix again for 2 minutes. Keep the mixing attachment completely immersed in the product while mixing.

Apply the mix within the specified open time using a straight edge and suitably sized spacers according to the amount of bend in the steel sheets, the thickness of the weld beads and any hollows or deformations in the sheets. Keep the surrounding temperature and the temperature of the product under control; temperatures above or below +20°C will reduce or increase the open time respectively.

CLEANING TOOLS

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

PACKAGING

- 17 kg cans (A+B):
- component A = 15.00 kg;
 - component B = 2.00 kg.

STORAGE

Store the product in its original packaging in a dry place at a temperature of +5°C to +35°C. Maximum 24 months.

CERTIFICATION

Mapedeck Flexiscreed is certified as a "Primary deck covering" according to IMO Res. 61 (67) FTPC, annex 1, parts 2 and 5.

SAFETY INSTRUCTIONS FOR HANDLING MAPDECK FLEXISCREED

Mapedeck Flexiscreed component A is not considered as dangerous according to the current regulation regarding the classification of mixtures. Mapedeck Flexiscreed component B is irritant for the skin, the eyes and the respiratory system and it may cause sensitization in those subjects sensitive to isocyanates. It may also cause irreversible damage if used for lengthy periods. The product does not give off hazardous vapours at room temperature and under normal conditions of use. Component B may become harmful and cause sensitization if inhaled at temperatures higher than +60°C. In case of disease seek for medical attention.

When applying the product, we recommend the use of protective gloves and goggles and to take the usual precautions for handling chemical products. In case of contact with eyes or skin wash immediately with plenty of water and seek medical attention. We recommend to employ a suitable tool for the protection of respiratory system.

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 ONLY FOR PROFESSIONAL USE.

TECHNICAL DATA (typical values)		
PRODUCT IDENTITY		
	component A	component B
Colour:	beige	brown
Consistency:	paste	liquid
Density (g/cm ³):	1.15	1.15
Viscosity at +23°C (mPa·s):	8000	100
APPLICATION DATA (at +23°C - 50% R.H.)		
Mixing ratio in volume:	88	12
Mixing ratio in volume:	7.5	1
Consistency of mix:	paste	
Density of mix (kg/m ³):	1.15	
Viscosity of mix at +23°C (mPa·s):	3000	

Workability time at +20°C:	20 minutes
Application temperature:	+10 / +30
Hardening time at +23°C and 50% R.H.: – set to foot traffic: – complete hardening time:	16 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	
Tensile strength N/mm ² (DIN 53504) after 7 days:	1.5
Maximum elongation after 7 days (DIN 53504):	70%
Tear strength after 7 days (ISO 34-1) N/mm:	6
CERTIFICATION	
IMO Res. 61 (67) FTPC annex 1, parts 2 and 6:	primary deck covering

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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