

# MAPEDECK LITESCREEED

Self-levelling, lightweight, self-extinguishing polyurethane base layer for levelling off internal and external bridge decks



## WHERE TO USE

**Mapedek Litescreed** is used to level off internal and external decks on ships before bonding floor coverings.

## TECHNICAL CHARACTERISTICS

**Mapedek Litescreed** is a two-component polyurethane resin-based formulate according to a formula developed in the MAPEI R&D laboratories.

**Mapedek Litescreed** has high-strength and good resistance to chemicals and abrasion.

## RECOMMENDATIONS

- Do not dilute **Mapedek Litescreed** 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 bonding surface

The bonding surface 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 **Mapedek Primer 200** or **Mapecoat Guard 100**.

## APPLICATION

**Mapedek Litescreed** 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 **Marine Filler 20** to the mix at a resin/filler weight ratio of 100/50 and mix together. 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 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 **Mapedek Litescreed** with ethanol or thinners immediately after use. Once hardened, the product may only be removed using mechanical means.

## CONSUMPTION

1. Neat **Mapedek Litescreed** (A+B) 1.1 kg/m<sup>2</sup> per mm of thickness.

2. Fillerized **Mapedek Litescreed** with **Marine Filler 20** in a ratio of 100:50 : 1 kg/m<sup>2</sup> per mm of thickness.

The consumption rates above are theoretical and are influenced by the condition of the surface to be treated, absorbency, roughness, the conditions on site, etc.

## PACKAGING

20 kg cans: (comp. A + comp. B) :

component A = 16 kg;

component B = 4 kg.

## STORAGE

The product must be stored in its original packaging in a dry place at a temperature of between +5°C and +35°C. Max. 12 months.

## CERTIFICATION

**Mapedek Litescreed** is certified as a "**Primary decks covering**" according to IMO Res. 61(67) FTPC Annex 1, Parts 2 and 6, for applications in one single layer up to 20 mm thick.

## SAFETY INSTRUCTIONS FOR PREPARATION AND APPLICATION

**Mapedek Litescreed** comp. A is not considered dangerous according to current norms regarding the classification of mixtures.

**Mapedek Litescreed** comp. B is irritant for the eyes, the skin and the respiratory tract. Furthermore, it may cause irreversible damage if used for lengthy periods and it may cause allergic reactions if it comes in contact with the skin of subjects sensitive to isocyanates. At temperatures above +60°C the product can give off vapours that may be harmful and cause sensitization if inhaled.

In the event of sickness seek medical attention.

During use, wear protective clothes, gloves, goggles and a safety mask to protect the respiratory system, and use only in well-ventilated areas. In case of contact with the eyes or skin, wash immediately with plenty of clean water and seek medical attention.

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

	component A	component B
Colour:	grey	brown
Consistency:	smooth paste	liquid

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

Mixing ratio:	component A : component B = 80 : 20
Consistency of mix:	fluid
Density of the product (A+B) (kg/m <sup>3</sup> ):	1.10

Density of mix (A+B + Marine Filler 20) (kg/m <sup>3</sup> ):	1.00
Workability time at +20°C:	45 mins.
Application temperature:	from +8°C to +35°C (surrounding temperature, product and substrate)
Hardening time at +23°C and 50% R.H.: – dust dry: – set to foot traffic: – full hardening time:	2-4 hours approx. 24 hours approx. 7 days
<i>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.).</i>	
<b>FINAL PERFORMANCE</b>	
Tensile strength (DIN 53504) after 7 days (N/mm <sup>2</sup> ):	3
Maximum elongation after 7 days (DIN 53504) (%):	60
Tear strength after 7 days (ISO 34-1) (N/mm):	15
<b>CERTIFICATION</b>	
IMO Res. 61(67) FTPC Annex 1, Parts 2 and 6:	primary decks 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](http://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.

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