

SikaFloor®-Marine 18

Adjustable primary deck covering mortar

Technical Product Data

Chemical base	Polymer modified cement mortar
Colour	Grey
Cure mechanism	Hydraulic
Mixing ratio with cold, potable water	per bag 2.8 - 3.3 litres
Density mixed ¹⁾	1.8 g/cm ³
Application temperature	5-30°C
Application thickness	5-50 mm
Coverage (per mm layer thickness)	per bag 15 m ² approx.
Working time ²⁾	15 minutes approx.
Walkable ²⁾	After 8 hours approx.
Modulus of elasticity in compression (EN 13412)	2.1 GPa
Storage	Store in packaging in a cool, dry place below 25°C
Shelf life and storage	9 months

¹⁾ Applied mortar, after 7 days

²⁾ 23°C / 50% r.h.

Description

SikaFloor®-Marine 18 may be used as an underlay for deck finish materials or in constrained visco-elastic systems.

It consists of a dry mortar mix, ready to be used by mixing with water.

This product is manufactured in accordance with ISO 9001 and ISO 14001 quality assurance systems and the responsible care program.

Product Benefits

- Easily applicable levelling compound.
- Also suitable for sloped surfaces
- One component, ready to mix
- Very flexible
- Accessible after a short period of time
- Wheel mark approval

Areas of Application

SikaFloor®-Marine 18 is applied inside ships on concrete and steel, to level the surface prior to the application of deck finishing materials, such as carpets, tiles, parquet, rubber and vinyl.

It is suitable for application in dry accommodation areas. For wet areas, the substrate has to be additionally treated with a water resistant impermeable sanded coat (e.g. SikaFloor®-156).

SikaFloor®-Marine 18 cannot be applied directly on zinc-rich shop primed surface, aluminium or galvanised steel. For further information please contact the Technical Department of Sika Industry.

This product is suitable for professional experienced users only. Test with actual substrates and conditions have to be performed to ensure adhesion and material compatibility.



Cure Mechanism

SikaFloor®-Marine 18 cures with water.

Method of Application

Surface preparation

The surface has to be clean, free from dust, grease, oils and other substances, which may impair the adhesion. The whole surface has to be primed with water based SikaFloor®-Marine Primer C using a long hair roller. After the drying of the primer SikaFloor®-Marine 18 may be applied.

Mixing process

One bag SikaFloor®-Marine 18 is mixed with approx. 3 litres cold, fresh water. The mixing time is approx. 3 min. at low speed until a homogenous mortar is obtained. Avoid formation of air bubbles. Adjust the consistency of the mortar with maximum 0.3 litres of potable water.

Application

Apply the mortar with a steel board or a straight edge. The mix has to be applied within 30 minutes after mixing. At temperatures above 25°C the open time until the mortar is applicable will be reduced to 20 minutes or less.

Curing

After application, the finished areas should be protected against direct heat, sunlight and draft during the curing process for at least one day after application.

Apply final covering only when the area is dry (uniform light grey aspect). This may take at least some days depending on the environmental conditions.

For covering the surface with dense materials such as vinyl, epoxy coatings, etc., the remaining moisture in the SikaFloor®-Marine 18 has to be less than 4%.

Test procedure to determine the required level of dryness

- put a PE-plastic foil of about 1 m² on the surface of the applied mortar floor
- tape the perimeter and leave for one day

The curing is complete if there is no water condensation on the foil or a visible colour difference between covered and uncovered surface.

Removal

Excess material can best be removed before curing with a trowel wipe. Unhardened SikaFloor®-Marine 18 may be removed from tools and equipment with water. Once cured, the material can only be removed mechanically. Hands and exposed skin should be washed with water. Use a suitable skin protection cream.

Further information

Copies of the following publications are available on request:

- Material Safety Data Sheet
- Product Data Sheet SikaFloor®-Marine Primer C

Health and Safety Information

For information and advice regarding transportation, handling, storage and disposal of chemical products, users should refer to the actual Material Safety Data Sheet containing physical, ecological, toxicological and other safety related data.

Note:

The information, and, in particular, the recommendations relating to the application and end-use of Sika products, are given in good faith based on Sika's current knowledge and experience of the products when properly stored, handled and applied under normal conditions. In practice, the differences in materials, substrates and actual site conditions are such that no warranty in respect of merchantability or of fitness for a particular purpose, nor any liability arising out of any legal relationship whatsoever, can be inferred either from this information, or from any written recommendations, or from any other advice offered. The proprietary rights of third parties must be observed. All orders are accepted subject to our current terms of sale and delivery. Users should always refer to the most recent issue of the Australian version of the Product Data Sheet for the product concerned, copies of which will be supplied on request.

Packaging Information

Bag	25kg
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