

PRODUCT DATA SHEET

Sikafloor® Marine Litosilo X

Floating floor for interior decks suitable for A 60 divisions and acoustic solutions

TYPICAL PRODUCT DATA (FURTHER VALUES SEE SAFETY DATA SHEET)

Chemical base		Polymer modified cement mortar
Color		Grey
Cure mechanism		Hydraulic
Density	mixed	1.5 kg/l
	cured	1.3 kg/l
Mixing ratio	per 20 kg bag	4 – 4.6 liters
Substrate temperature		5 – 35 °C
Application thickness	leveling	6 – 100 mm
	floating floor	25 – 100 mm
Coverage	per 20 kg bag at layer thickness 1 mm	13 m ²
Working time (CQP599-9)		20 minutes ^A
Ready to walk on (CQP600-3)	depending on humidity and ventilation	3 hours ^A
Compressive strength (CQP599-2)		35 MPa ^B
	after 24 hours	25 MPa ^B
Flexural strength (CQP599-1)		6 MPa ^B
Modulus of elasticity in compression (CQP599-6 / EN 13412)		13 GPa ^B
Linear shrinkage (CQP599-5)		0.016 % ^B
Shelf life		12 months ^C

CQP = Corporate Quality Procedure

^A) 23 °C / 50 % r. h.^B) after 28 days^C) stored in a dry, cool place below 25 °C
DESCRIPTION

Sikafloor® Marine Litosilo X is a 1-component medium weight high strengths leveling mortar based on polymer modified cement with excellent flame resistance.

Sikafloor® Marine Litosilo X is tested according to FTP Code system and approved according to the IMO Marine Equipment Directives.

PRODUCT BENEFITS

- Approved as A-60 class division with Isover and Rockwool
- Fast setting
- Magnesium chloride free
- Non combustible
- Can be pumped (fast setting needs to be considered)
- One component, ready to mix

AREAS OF APPLICATION

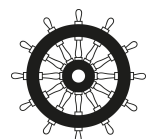
Sikafloor® Marine Litosilo X is applied on interior decks, as primary deck covering or as sound reducing floating floor prior to the application of deck finishing materials such as: carpets, tiles, parquet, rubber and vinyl.

There are various combinations with Sikafloor® Marine Litosilo X to achieve an A 60 division and combined with insulation and a Sika viscoelastic system it can in addition be used to damp structure borne noise.

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

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Sikafloor® Marine Litosilo X
Version 03.01 (07 - 2024), en_US
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CURE MECHANISM

Sikafloor® Marine Litosilo X cures by way of hydraulic curing.

METHOD OF APPLICATION

Surface Preparation

For leveling applications, the surface has to be clean, free from dust, grease, oils and other substances, which may impair adhesion. Rust has to be removed with a steel brush or other appropriate means, followed by vacuum cleaning.

The surface has to be primed with Sikafloor® Marine Primer C using a long hair roller. After drying of the Sikafloor® Marine Primer C, Sikafloor® Marine Litosilo X may be applied. Sikafloor® Marine Litosilo X applications on aluminum or zinc rich shop primer coated decks, require a tie coat of SikaCor® ZP Primer or another suitable tie coat prior the priming step with Sikafloor® Marine Primer C.

For floating floors, the mineral wool has to be sound (not damaged), clean, dry free from grease, oils and other substances.

It's a must to use re-enforcement such as wire mesh or similar for the whole area and extra re-enforcement (e.g. steel plates) where ever a higher load is expected such as in both sides of doors areas, staircases, etc.

Further details for floating floors consult the Application Manual of Sikafloor® Marine Litosilo X and its approved combinations.

Consider that prior applications of vinyl and carpet coverings, a thin self levelling mortar such as Sikafloor® Marine 100 has to be applied to obtain an even floor. For wet areas the surface has to be treated with a water resistant membrane (e.g. Sikafloor® Marine Elastic).

Mixing process

One bag of Sikafloor® Marine Litosilo X is mixed with 4 to 4.6 liters cold potable water. The mixing time with a drilling machine and proper mixing paddles is approx. 5 minutes (not higher than 400 rpm). Ensure the powder is mixed completely (bottom and side walls of the bucket).

For larger amounts, it may be mixed with a cement mixer. In any case, ensure a homogenous mortar is obtained before application.

Application

Apply the mortar with a steel board or a straight edge.

Sikafloor® Marine Litosilo X has to be applied within 30 minutes after mixing. At temperatures above 30 °C the open time will be reduced to 10 minutes or less.

For advice on selecting and setting up a suitable pump system, contact the System Engineering Department of Sika Industry.

Curing

After application, the finished areas have to be protected against direct heat (e.g. cutting or welding from beneath), sunlight and draught during the curing process for at least 12 hours.

Before Sikafloor® Marine Litosilo X is covered with dense materials such as vinyl, epoxy or polyurethane coatings, etc., ensure that the remaining moisture level is below 4 %.

Test procedure to determine the dryness (according ASTM D 4263): put a PE-plastic foil 1 m x 1 m 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 color difference between covered and uncovered surface.

Removal

Excess material can best be removed before curing with a trowel wipe or water.

Fresh Sikafloor® Marine Litosilo X may be removed from tools and equipment with water. Once cured, the material can only be removed mechanically.

Exposed hands and skin shall be washed immediately with water. Use a suitable skin protection hand cream.

FURTHER INFORMATION

The information herein is offered for general guidance only. Advice on specific applications is available on request from the Technical Department of Sika Industry.

Copies of the following publications are available on request:

- Safety Data Sheet
- Sikafloor® Marine Application Manuals:
 - Cementitious floating floor
 - Trowel-Out Mortars

PACKAGING INFORMATION

Bag	20 kg
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BASIS OF PRODUCT DATA

All technical data stated in this document are based on laboratory tests. Actual measured data may vary due to circumstances beyond our control.

ENVIRONMENTAL, HEALTH AND SAFETY

For further information and advice regarding transportation, handling, storage and disposal of chemical products, user should refer to the actual Safety Data Sheets containing physical, environmental, toxicological and other safety related data. User must read the current actual Safety Data Sheets before using any products. In case of an emergency, call CHEMTREC at 1-800-424-9300, International 703-527-3887.

LEGAL DISCLAIMER

Prior to each use of any product of Sika Corporation, its subsidiaries or affiliates ("SIKA"), the user must always read and follow the warnings and instructions on the product's most current product label, Product Data Sheet and Safety Data Sheet which are available at usa.sika.com or by contacting SIKA's Technical Service Department via email at tsmh@us.sika.com. Nothing contained in any SIKA literature or materials relieves the user of the obligation to read and follow the warnings and instructions for each SIKA product as set forth in the current product label, Product Data Sheet and Safety Data Sheet prior to use of the SIKA product.

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