BUILDING TRUST

PRODUCT DATA SHEET

Sikafloor® Marine Litosilo N

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
Colour		Grey
Cure mechanism		Hydraulic
Density	mixed	1.4 kg/l
	cured	1.3 kg/l
Mixing ratio	per 20 kg bag	4.6 – 5.4 liters
Substrate temperature		5 – 30 °C
Application thickness		25 – 50 mm
Coverage	per 20 kg bag at layer thickness 1 mm	15 m^2
Working time (CQP599-9)		20 minutes [A]
Ready to walk on (CQP600-3)	depending on humidity and ventilation	16 hours [A]
Compressive strength (CQP599-2)		20 MPa [B]
Flexural strength (CQP599-1)		4 MPa [B]
Modulus of elasticity in compression (CQP599-6 / EN 13412)		7.4 GPa [B]
Linear shrinkage (CQP599-5)		0.02 % [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 N is a 1-component medium weight leveling mortar based on polymer modified cement with excellent flame resistance.
Sikafloor® Marine Litosilo N is tested according to FTP Code system and approved according to the IMO Marine Equipment Directives.

PRODUCT BENEFITS

- Magnesium chloride free
- Low E-modulus
- One component, ready to mix
- A-60 combination with minimum 20 mm SeaRox 436 SL
- Can be pumped

AREAS OF APPLICATION

Sikafloor® Marine Litosilo N 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 N to achieve an A 60 division and combined with insulation and a Sika visco-elastic system it can in addition be used to damp structure borne noise.
This product is suitable for experienced professional users only. Test with actual substrates and conditions have to be performed to ensure adhesion and material compatibility.

CURE MECHANISM
Sikafloor® Marine Litosilo N 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 N may be applied. Sikafloor® Marine Litosilo N 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 N 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 N is mixed with 4.6 to 5.4 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 N 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 N 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 N 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
- Application Manual
  Sikafloor® Marine Litosilo N

PACKAGING INFORMATION
Bag	20 kg

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.

HEALTH AND SAFETY INFORMATION
User must read the most recent corresponding Safety Data Sheets (SDS) before using any products. The SDS provides information and advice on the safe handling, storage and disposal of chemical products and contains physical, ecological, toxicological and other safety-related data.

DISCLAIMER
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 accordance with Sika's recommendations. 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 user of the product must test the product's suitability for the intended application and purpose. Sika reserves the right to change the properties of its products. The proprietary rights of third parties must be observed. All orders are accepted subject to our current terms of sale and delivery. Users must always refer to the most recent issue of the local Product Data Sheet for the product concerned, copies of which will be supplied on request.

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