

SikaFloor[®] Marine Litosilo

Lightweight sound reducing floating floor – an A-60 construction

Technical Product Data

Properties	Rockwool [®] Marine slab 140	Litosilo compound
Chemical base	Mineral wool	Magnesium Oxychloride cement
Colour	Yellow	Grey
Density	0,14 g/cm ³	1.3 g/ cm ³
Working time	Approx. 30 minutes	
Application temperature	min. +5°C	
Recommended thickness	min. 20 mm	min. 25 mm
Consumption (theoretical)	2,8 kg/m ²	1 set per approx. 8 m ³ or approx. 33 kg/m ² (25 mm)
Consumption (practical)	Waste can be 5-10% depending on working area	1 set per approx. 7 m ³ or approx 33 kg/m ² (25 mm)
Curing time at +20°C and max 65% relative humidity	Approx. 15 hours	
Shelf life and storage	Maximum 1 year in unopened packaging.	

Description

SikaFloor[®] Marine Litosilo Floating Floor is used as a fire-resistant (A-60) and/or sound reducing floor. This product is manufactured in accordance with ISO 9001 and ISO 14001 quality assurance systems.

Product Benefits

- Lightweight
- Sound reducing
- Fire resistant (A-60)

Certificates/Approvals

- Wheel-Mark
- United States Coast Guard
- Major authorities and classification societies.

Areas of Application

SikaFloor[®] Marine Litosilo is used as a fire-resistant floor for deck finish materials such as: rubber, vinyl, carpets, epoxy floor, tiles etc. For additional information please contact our technical department.



Cure Mechanism

SikaFloor® Marine Litosilo Cures at +20°C and max. 65% relative humidity after approx. 15 hours. Carpets should not be laid until after 5-6 days. The compound must be fully and entirely dry prior to the application of "dense" deck finish materials such as vinyl etc.

Method of Application

Surface preparation

The surface has to be clean, free from dust, grease, oils and other substances. The steel surface has to be protected against corrosion (e.g. shop priming).

Mixing process

One set SikaFloor® Marine Litosilo compound consists of four components:

- M-Ballast: 8 bags of 17 kg
- B-Cement: 2 bags of 25 kg
- S-Hardener: 2 bags of 25 kg
- Fresh water 70 litres

The mixing consists of three stages:

- 1) Two bags of S-Hardener (white flakes) are dissolved in approx. 70 litres cold, fresh water in a drum (use e.g. a powerful blender (power drill with appropriate blender accessories). The mixture should make a total of approx. 100 litres. The density of the mixture must be 1,18 g/cm³. Use a density meter to check the density.
- 2) The powder components (M-Ballast and B-Cement) are mixed as a dry-mix in an agitator mixer (with fixed vessel).
- 3) The S-Hardener solution is added. The mixture should have a homogeneous consistency. If necessary, a little more fresh water can be added.

The prepared SikaFloor® Marine Litosilo compound must be used within approx. 30 minutes at +20°C.

IMPORTANT: The quantity to be mixed shall not be less than ½ set.

Application

Application is most easily performed with Linotol trowels (steel boards) or other suitable equipment and does not distinguish itself from other similar marine deck covering types.

The lowest permissible temperature at the time of application is +5°C- Before application of the Litosilo compound, the Marine slabs are placed on the steel deck and a careful insulation along the perimeter and all edges is done with special foam tape on top of the Marine slabs.

It is very important that all metal parts (bulkheads, pipe penetrations, foundations etc.) are kept isolated. The Litosilo compound must never be in direct contact with the metal parts.

After the application the compound must be protected against strong, direct heat, sunshine and draft. If the construction is covered temporarily (e.g. to protect the surface during the working period), do not use a dense material (e.g. plastic foil), but a material, which allows the water in the compound to come out of the construction (e.g. millboard)

Removal

Excess material can best be removed before curing with a trowel wipe. Unhardened SikaFloor® Marine Litosilo may be removed from tools and equipment with water. Once cured, the material can only be removed mechanically.

Further information

Copies of the following publications are available on request:

- Material Safety Data Sheet
- Technical Data Sheet

Packaging information

Bag	M-Ballast	17 kg
Bag	B-Cement	25 kg
Bag	S-Hardener	25 kg
Rockwool® slabs 140 in packs		

Important

M-Ballast may not be exposed to moisture.

B-Cement may not be exposed to moisture.

S-Hardener may not be exposed to moisture and freezing temperatures.

The applied SikaFloor® Marine Litosilo compound may not be exposed to freezing temperatures before being fully dry.

For additional technical information please contact our technical department.

Wetrooms

To avoid ingress of water into the Rockwool® layer, we recommend to edge seal along the perimeter and top seal the Litosilo compound.

As edge seal use the Sika FireSil and as top seal use SikaFloor® Marine epoxy systems.

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