Technical Data Sheet
Version 06.05

SikaFloor Marine® Litosilo Steel

Sound reducing floating floor – very low building height

Technical Product Data

Properties	Polyurethane	Mineral wool	Steel plates
Chemical base	PU-Red	Rockwool® Marine Slabs 140	El-galvanized
Colour	Red	Yellow	Grey
Density approx.	Base: 1,3 g/cm³ Hardener: 1,2 g/cm	0,14 g/cm³	8 g/cm³
Recommended thickness Total 36 mm	1 mm	Min. 30 mm or 70 mm for A-60 construction	2000x1000x 1,5-2,0 mm or 2000x1000x3 mm
Consumption (theoretical) approx.	1 set per 3,8 m²/mm		
Consumption (practical) approx.	1 set per 3,3 m²/mm		
Curing time	6-8 hours at +20ºC		
Shelf life	Min. one year if stored unopened in dry room with temperature not exceeding +40ºC and not below 0ºC.		

Description
SikaFloor Marine Litosilo Steel is a floating floor system with extremely good sound reducing properties
SikaFloor Marine Litosilo Steel consists of:
A) Rockwool Marine Slabs 140
Thickness: min. 30mm.
With a thickness of min.70 mm (30 + 40 mm), the system is A-60 approved
B) El galvanized steel plates (2000 x 1000 x 3 mm), tack-welded to 2000x140x1,5mm. steel strips.
C) SikaFloor Marine PU-red (thickness: 1 mm) : Visco-elastic damping layer.
D) El-galvanized steel plates (2000 x 1000 x 1,5 mm).
This product is manufactured in accordance with ISO 9001 and ISO 14001 quality assurance systems

Product Benefits
- high sound reduction
- high dampening properties
- very low building height
- fire ratet

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

Areas of Application
SikaFloor Marine Litosilo is used as floor for deck finish materials such as: rubber, vinyl, carpets, tiles etc.
For additional information please contact our technical department

Industry

Cure Mechanism
Curing time of SikaFloor Marine PU-Red is approx. 6-8 hours.

Mixing
One set of SikaFloor Marine PU-Red consists of:
- PU-Red Base:
  1 bucket of 4,2 kg
- Hardener:
  1 can of 0,7 kg

The components are mixed thoroughly in the large bucket (the bucket containing SikaFloor PU-Red base) using a power drill with the appropriate blender accessories. The base and the hardener quantities are measured – one bucket of base must be used with one can of hardener.
The prepared compound must be used within approx. 15 min. at +20ºC.

Method of application
The application of SikaFloor Litosilo Steel consists of five operations:
A) The Rockwool slabs are applied:
I**MPORTANT**
The Rockwool slabs must be even (plane). The deck may be prelevelled if necessary. SikaFloor Marine S-110 is recommended as prelevelling compound
B) The 3 mm steel plates are placed staggered directly on the Rockwool. They must <u>not</u> have any contact with the walls (e.g. the distance between the walls and the steel plates may be 10 mm). The steel plates are spot welded together. (El-galvanized steel strips can be used under and between two plates.) The distance between the welding spots should be approx. 15-20 cm.
C) .The prepared PU-Red compound is applied on the steel plates. Use a 2 mm toothed paste spreader, to end up with a layer thickness of 1 mm.
D) The 1,5 mm steel plates are placed on the wet PU-Red. It is very important that the PU-Red to steel contact-ratio is as high as possible (90-100 pct.).
E) E) Self tapping screws are used in order to keep the steel plates in place. The heads of the screws are removed the next day.

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

One set of SikaFloor Marine PU-Red

Bucket	Base	4,2 kg
Can	Hardener	0,7 kg

Rockwool Marine 140 slabs in packs

El.galvanized steel plates

2000 x 1000 x 1,5 – 2mm or 2000 x 1000 x 3 mm
2000 x 140 x 1,5 mm

Important:
The Rockwool slabs must not be exposed to moisture. The unmixed PU-Red Base and Hardener must not be exposed to moisture and freezing temperatures. If the base becomes too stiff at low temperatures, the material may be conditioned to a higher temperature before mixing.
The prepared PU-Red compound must not be exposed to moisture and a temperature, which is below +5ºC before the curing process is completed.

Sika Danmark A/S
Praestemosevej 2-4
DK-3480 Fredensborg
Denmark

Tel. +45 48 18 85 85
Fax +45 48 18 84 96
e-mail: sika@dk.sika.com
www.sika.dk