

SikaFloor® Marine PK-90 ALU

Sound reducing construction

Technical Product Data

Properties	Visco layer: Polyurethane	Constrained layer: Aluminium
Chemical base	PU-Red	Aluminium plates
Colour (CSQP ¹ 001-1)	Red	Grey
Density (CSQP 006-4))	1.3 g/cm ³ approx (applied)	2.7 g/cm ³ approx.
Application temperature	+5°C	
Open time ² (CSQP 526-1)	15 minutes at +20°C	
Curing speed	6-8 hours at +23°C	
Recommended thickness	1 mm approx.	1.5 mm
Consumption (theoretical)	3.8 m ² /mm per set	2.7 kg/ m ² /mm
Consumption (practical)	3.3 m ² /mm per set	2.7 kg/ m ² /mm
Shelf life and storage ³ (CSQP 016-1) for SikaFloor Marine PU-Red	12 months	

¹⁾ CSQP = Corporate Sika Quality Procedure ²⁾ 23°C (73°F) / 50% r.h. ³⁾ stored at temperature below 25°C (77°F) and not exposed to direct sun light

Description

SikaFloor® Marine PK-90 ALU

Consists of:

A) SikaFloor® Marine PU.-Red: A two component solvent-free, fire retarding polyurethane damping compound

B) ALuminum plates

This product is manufactured in accordance with ISO 9001 and ISO 14001 quality assurance systems

Product Benefits

- Good vibration damping
- Levelling and sound reducing properties.
- Low weight

Certificates/Approvals

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

Areas of Application

SikaFloor® Marine PK-90 ALU may be used in all internal areas as underlay for vinyl, rubber, carpets, tiles etc. SikaFloor® Marine PK-90 ALU can be combined with SikaFloor® Marine Litosilo systems to obtain a wide frequency range sound reducing deck covering system.

Industry



Dehydration / curing:

The almost final strength and hardness of PU-Red are obtained after two weeks. But the next application can be carried out after 6-8 hours at +23°C.

Method of Application

Surface preparation

The surface has to be clean, free from dust, grease, oil and other substances, which may impair the adhesion.

It is recommended, that aluminium surfaces are grinded in order to improve the adhesion between the product and aluminium.

Mixing:

Sika Cufadan PU-Red:

One set SikaFloor® Marine PU-Red consists of:

- PU-Red Base: 1 bucket of 4.2kg.
- PU-Red Hardener: 1 can of 0.7 kg.

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

Application

SikaFloor® Marine PU-Red:

Use a 2 mm toothed paste spreader, to end up with a layer thickness of 1 mm.

Min. room and steel deck temperature during application is +5°C.

Horizontal:

Before the PU-Red is applied, the Aluminium deck can be grinded in order to improve the adhesion of the PU-Red and the deck. After the prepared PU-Red compound is applied, the Aluminium plates are placed on the wet PU-Red compound, and some heavy things (e.g. buckets, which are filled with quartz) are placed on the Aluminium plates in order to keep them in place. These things will be removed when the PU-Red has cured.

Vertical:

The bulkhead has to be dry, free of dust, grease, oil etc. If the bulkhead is painted, please contact Sika Danmark A/S for further information.

The steel plates are applied with PU-Red. When the PU-Red on the steel plates has cured, the PU-Red compound is applied on the bulkhead and the steel plates with cured PU-Red are mounted on the wet PU-Red compound. The steel plates are kept in place by means of bolts and nuts.

Removal

Once cured, the material can only be removed mechanically.

Further Information

Copies of the following publications are available on request:

- Material safety Data Sheet
- Application instructions

Packaging Information

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

Important

- It is very important that the contact ratio of Aluminium to PU-Red is as high as possible (90-100%).
- SikaFloor® Marine PU-Red (Base and Hardener) may not be exposed to freezing temperatures. If the base becomes too stiff at low temperatures, the materials must be conditioned to a higher temperature before mixing.

The prepared PU compound may not be exposed to freezing temperatures and humidity before being fully cured.

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