

SikaFloor[®] Marine PK-90 Steel

Constrained visco-elastic damping system

Technical Product Data

Properties	Visco layer: Polyurethane	Constrained layer: Electro Galvanized steel plates
Chemical Base	PU-Red	Steel plates
Colour	Red	Grey
Density	1,3 g/cm ³ approx. (applied)	8 g/cm ³ approx.
Working time	15 minutes at +20°C	
Application temperature	+5°C - +20°C	
Recommended thickness	1 mm approx.	1,5 mm (based on 6 mm steel deck) or 2 mm (based on 9 mm steel deck)
Consumption (theoretical)	3,8 m ² /mm/set	8 kg kg m ² /mm/set
Consumption (practical)	3,3 m ² /mm/set	8 kg kg m ² /mm/set
Curing time at +20°C	6 – 8 hours	
Shelf life, when stored unopened in dry room temperature	Min. one year +0 - +40 °C	

Description

SikaFloor[®] Marine PK-90 Steel may be used in all internal areas as under layer for vinyl, rubber, carpets, tiles etc. SikaFloor Marine PK-90 Steel can be combined with SikaFloor[®] Litosilo, to obtain a wide frequency range sound reducing deck covering system. SikaFloor[®] Marine PK-90 Steel consists of:

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

B) Steel plates: El-galvanized steel plates.

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

Product Benefits

- Good vibration damping
- Good sound reducing properties
- Low building height
- Quick drying
- Possible vertical application

Certificates/Approvals

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

Areas of Application

SikaFloor[®] Marine PK-90 Steel may be used in all internal areas as underlay for vinyl, rubber, carpets, tiles etc. For additional information please contact our technical department.



Curing Mechanism

At +20°C the PU-Red compound will be cured after 6-8 hours.

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 process

One set of SikaFloor® Marine PK-90 Steel consists of:

A) SikaFloor® Marine PU-Red

- PU-Red base:
1 bucket of 4,2 kg
- PU-Red hardener
1 can of 0,7 kg

The components are mixed in a 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 bucket of hardener.

The prepared compound must be used within approx. 15 min. at +20°C.

Application

SikaFloor® Marine PK-90 Steel may be used on steel. The foundation must be free of dust, grease, oil and other substances, which may impair adhesion. For the application of 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.

B) The steel plates are placed on the wet PU-Red compound. It is very important that the contact-ratio of steel to PU-Red is as high as possible (90-100%).

Horizontal

The prepared PU-Red compound is applied and the steel plates are placed on the wet PU-Red compound. Some heavy things (e.g. buckets, which are filled with quarts) are placed on top of the

steel plates in order to keep them in place. These will be removed when the PU-Red has cured.

Vertical

The bulkhead has to be dry, free of dust, grease, oil and other substances which may impair adhesion. 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

Excess material can best be removed before curing with a trowel wipe. Once cured, the material can only be removed mechanically. Hands and skin should be washed with water. Use suitable skin protection cream.

Further information

Copies of the following publications are available on request:

- Material Safety Data Sheet
- Technical Data Sheet

For additional information please contact our technical department.

Packaging information

SikaFloor® Marine PU-Red

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

Steel Plates Galvanized

Horizontal	400x500x1,5/2 mm
Vertical	450x550x2mm

Important

SikaFloor® Marine PU-Red: The unmixed parts and the applied compound 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 +5°C before the curing process is completed.

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