

SikaFloor[®] Marine PK-90

Constrained visco-elastic damping system

Technical Product Data

Properties	Component A: PU-Red	Component B: KG-303
Chemical base	Polyurethane	Cement
Colour	Red	Grey
Density	Approx. 1,3 g/cm ³ (applied)	Approx. 1,8 g/cm ³ (applied)
Working time	15 minutes	30 minutes
Application temperature	+5°C - +20 °C	
Recommended Thickness	1 mm approx.	9 mm if 6 mm steel deck 12 mm if 8 mm steel deck
Consumption (theoretical)	3,8 m ² /mm approx. per set	48 m ² /mm per set
Consumption (practical)	3,3 m ² /mm approx. per set	45 m ² /mm per set
Curing time at +20°C and 65% r.h. but depending on thickness of applied layer, temperature and ventilation in working area	6 – 8 hours	8-10 hours,
Shelf life	Min. one year in unopened packaging if stored dry at temperature not below 0°C and not exceeding 40°C	Min. 6 months in unopened packaging if stored dry

Industry

Product Description

Sikafloor[®] Marine PK-90 is a multilayer system with extremely good sound and vibration reducing properties, consisting of

- SikaFloor[®] Marine PU-Red; a two component solvent-free, fire retarding polyurethane damping compound.
- SikaFloor[®] Marine KG-303, a cement based constraining layer

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.
- Can easily be used in slipway

Certificates/Approvals

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

Areas of Application

In all internal areas as under layer for vinyl, rubber, carpets, tiles etc. It can also be used in connection with SikaFloor Marine Litosilo systems.



Cure mechanism

- A) SikaFloor® Marine PU red cures in approx. 6-8 hours at +20°C
- B) SikaFloor® Marine KG-303 cures in approx. 8 -10 hours at 20°C and 65% relative humidity.

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

A) SikaFloor® Marine PU-Red

One set consists of:

- PU-Red Base:
- 1 bucket of 4,2 kg:
- Hardener: 1 can of 0,7 kg

The components are mixed in a large bucket (the bucket containing SikaFloor Marine 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 +20°C.

Application

Use a 2 mm toothed paste spreader, to end up with a layer thickness of 1 mm. SikaFloor Marine PU-Red.

B) SikaFloor® Marine KG-303

One set consists of:

- KG-303 powder: One bag of 40 kg
- KG-303 binder: 10 kg
- Quartz (2-3 mm): One bag of 40 kg

One bag of powder and one bag of quartz are mixed with 10 kg of Binder until a suitable homogeneous mixture is obtained. Mix the compound in an agitator mixer (with fixed vessel) or with a power drill with appropriate blender accessories. The mixing time should not exceed 5 minutes.

The prepared SikaFloor® Marine KG-303 must be used within approx. 30 min. at 20°C.

Application

Is most easily performed with a Linotol trowel (steel board)

Removal and cleaning of tools

SikaFloor® Marine KG-303: can be removed with water before the compound has cured. Once cured, the material can only be removed mechanically. Hands and exposed skin should be washed with water. Use a suitable skin protection cream

For additional technical information please contact our technical department.

Further information

Copies of the following publications are available on request:

- Material Safety Data Sheet
- Technical Data Sheet

Packaging information

SikaFloor® Marine PU-red

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

SikaFloor® Marine KG-303

Bag	Powder	40 kg
Drum	Binder	120 kg
Bag	Quartz	40 kg

Important

A) 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.

B) SikaFloor® Marine KG-303

Powder may not be exposed to moisture.

Binder may not be exposed to freezing temperatures, heat and direct sunlight.

The applied compound may not be exposed to freezing temperatures, draft and direct heat or sunlight.

For further technical information please contact our technical department.

Notice:

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