Industry

Product Data Sheet

Version 06/2011 (10/2012)

Sikafloor® Marine PU-Red

Visco-Elastic Damping Compound

Technical Data

	Compound A - Resin	Compound B - Hardener
Chemical Base	Pigmented Polyols	Isocyanate Derivatives
Viscosity (CQP[1] 001-1) (Brookfield 6/20, 23°C)	20 pa·s	120 pa·s
Colour	Red	Brown
Colour - mixed	Red	
Density	1.3 kg/L approx	1.2 kg/L approx
Density - mixed	1.3 kg/L approx	
Mixing Ratio (by weight)	6	1
Shore A Hardness (CQP 023-1)	55	
Open Time[2]	15 minutes	
Ready for Foot Traffic[2]	8 to 10 hours	
Tensile Strength (CQP 036-1/ISO 527)	1.6 MPa approx	
Elongation at Break (CQP 036-1/ISO 527)	43% approx	
Application Temperature (substrate)	5 to 40°C	
Shelf Life and Storage Conditions[2]	12 months	

[1] CQP = Corporate Quality Procedure
[2] 23°C and 50% Relative Humidity

Description

Sikafloor® Marine PU-Red is a two-component damping compound used in acoustical applications. Sikafloor® Marine PU-Red is manufactured in accordance with ISO 9001 and ISO 14001 Quality Assurance Systems and meets the requirements set out by the International Maritime Organisation (IMO).

Product Benefits

- Excellent acoustical and vibration-damping properties;
- Easy-to-apply;
- No shrinkage;
- Solvent-free;
- Wheel Mark Directive-compliant.

Areas of Application

Sikafloor® Marine PU-Red is used as a noise- and vibration-damping compound in Sikafloor® Marine constrained visco-elastic systems and in visco-elastic floating floors. In addition, it can be used as a vibration-damping compound for wooden decks. It is suitable for use in horizontal as well as in vertical applications. This product is suitable for professional experienced users only.

Cure Mechanism

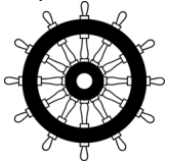
Sikafloor® Marine PU-Red cures thanks to a chemical reaction between the two components.

Surface Preparation

The surface has to be clean and free from dust, grease, oils and other substances which may impair adhesion. For the application of Sikafloor® Marine PU-Red on aluminium or zinc-rich shop primer-coated decks, a tie-coat of Sika ZP-Primer or other suitable tie-coat is required. For further information, contact the Technical Services Department of Sika Industry.

Mixing Process

Sikafloor® Marine PU-Red consists of two components: PU-Red Base (6 kg) and PU-Red Hardener (1 kg). The components are mixed in the pail containing the PU-Red Base using a power drill with the appropriate mixing paddle. One pail of base must be used with one can of hardener. Mix the components for 3 minutes, ensuring that the 2 components are completely mixed (including bottom and side walls of the pail). The prepared compound must be used within approximately 15 minutes of mixing at a temperature of 20°C.



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Application	Pour the mixed Sikafloor® Marine PU-Red onto the surface, withholding 5% of the mix -- which is for incorporating into the subsequent batch. Use a 2 mm toothed paste-spreader to create a 1 mm layer thickness. One unit of 7 kg will give 5.3 m^2 of applied product, 1 mm in thickness. Where metal plates are to be embedded in the PU-Red (e.g. in the case of the Sikafloor® Marine PK-90 Steel or PK-90 Alu Systems), this has to be done while the Sikafloor® Marine PU-Red is still liquid. Where needed, material that has oozed out over the metal plates can be removed with a vibration blade once the PU-Red has hardened. For vertical applications, please refer to the Application Guide for Sikafloor® Marine PK-90 Steel Vertical.
Application Limits	Do not use the product below 5°C.
Removal	Uncured Sikafloor® Marine PU-Red may be removed from tools and equipment with Sika® Remover-208 or other suitable solvent. Once cured, the material can only be removed mechanically. Exposed hands and skin should be washed immediately using Sika® Hand Clean towels or other suitable industrial hand-cleaner and water. Do not use solvents!
Further Information	Copy of the following publications are available upon request: - *Material Safety Data Sheet* - *Sikafloor® Marine PK-90 Steel Application Guide* - *Sikafloor® Marine PK-90 Steel Vertical Application Guide* - *Sikafloor® Marine PK-90 Alu Application Guide* - *Sikafloor® Marine PK-90 N Application Guide*
Packaging	Base - 6 kg pail; Hardener - 1 kg can.
Value Bases	All technical data stated in this Product Data Sheet are laboratory test-based. Current measured values may vary due to factors beyond our influence.
Health and Safety Information	For information and advice on the safe handling, storage and disposal of chemical products, users should refer to the current Material Safety Data Sheet containing physical, ecological, toxicological and other safety-related data for the appropriate type of substance.

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