MARINE
SIKAFLOOR SOLUTIONS

BUILDING TRUST

THE FASTEST, THE STRONGEST AND MOST FLEXIBLE MORTARS

We have a highly qualified marine team with more than 40 years of experience within the development and design of acoustic solutions in the ships and offshore sector.

Sika has developed the fastest, the strongest and most flexible mortars. Sikafloor® Marine Litosilo FC mortar designed for refurbishment and walkable after 2 hours, Sikafloor® Marine - 118 FC smooth self-levelling compound with 35 MPa compressive strength and Sikafloor® Marine VEM, a visco-elastic mortar with a loss factor at 22%.

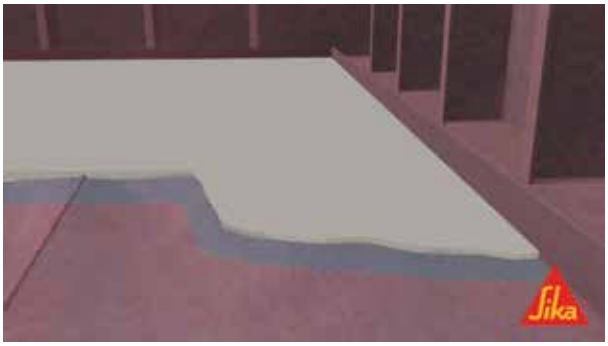
Sika provides the highest noise reduction values for floating floors and lowest building height for A-60 floors. Unique fast loading properties and tailor made heavy duty fast curing solutions.

We offer decorative broadcasted or smooth version epoxy floors for interior application and PUR resin floors for interior and exterior installations.

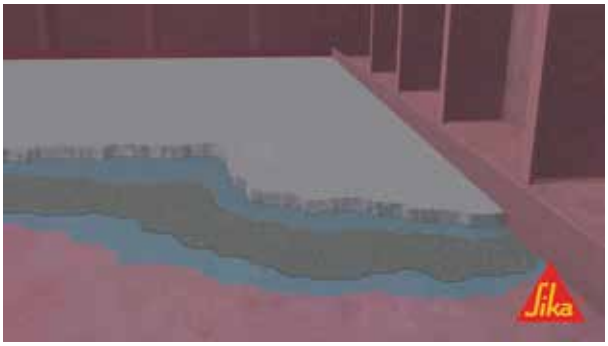
CONTENT

All Products and Systems are Wheelmarked

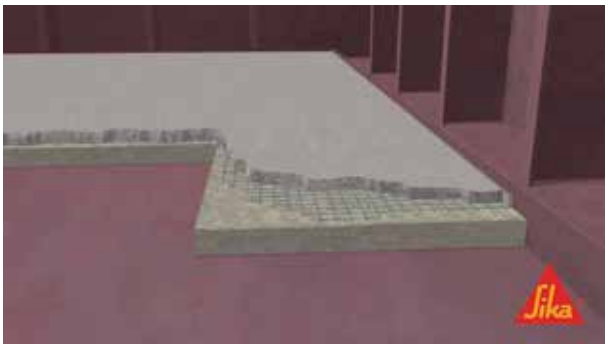
Sikafloor® Marine PRODUCT AND SYSTEM SELECTION GUIDE



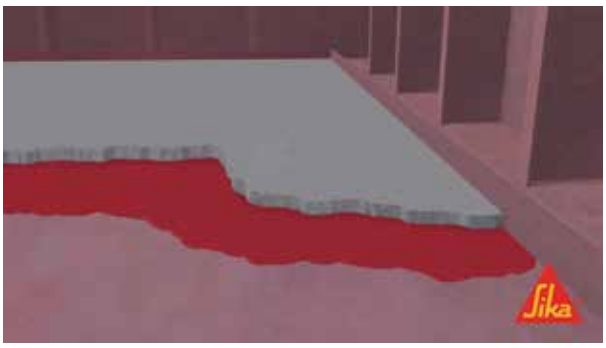
Sikafloor® Marine SELF-LEVELLING COMPOUNDS
To be able to give applied carpets, vinyl, tiles etc. a perfect smooth look it is important that the underlayment has a smooth surface. This can be ensured by using the one-component, pumpable technology of self-levelling mortars from Sika. In addition to building other Sikafloor® systems, the Sikafloor® Marine self-levelling products can be applied on top of existing hard foundations such as concretes and steel.



Sikafloor® Marine LEVELLING AND FAST CURING COMPOUNDS
Sikafloor® Marine levelling compounds are based on a one-component pumpable technology from Sika. The solutions provide cost effective benefits for the shipyard and installation team in logistics, handling and installation time. Sikafloor® Marine self-levelling and fast curing compounds can easily be mixed using only a handheld mixer or a pump. The levelling compounds can be troweled and are as well suitable for slopes.



Sikafloor® Marine FLOATING FLOORS
Sikafloor® Marine floating floor systems consist of a mineral wool layer on which either a non-combustible one-component fast curing compound or steel or alu plates are applied. These build-ups give maximum sound reduction and provide high degree of comfort for the crew onboard the vessel. The Sikafloor® Marine floating floors are all part of an A-60 fire rated solution with a building height of only 45 mm.

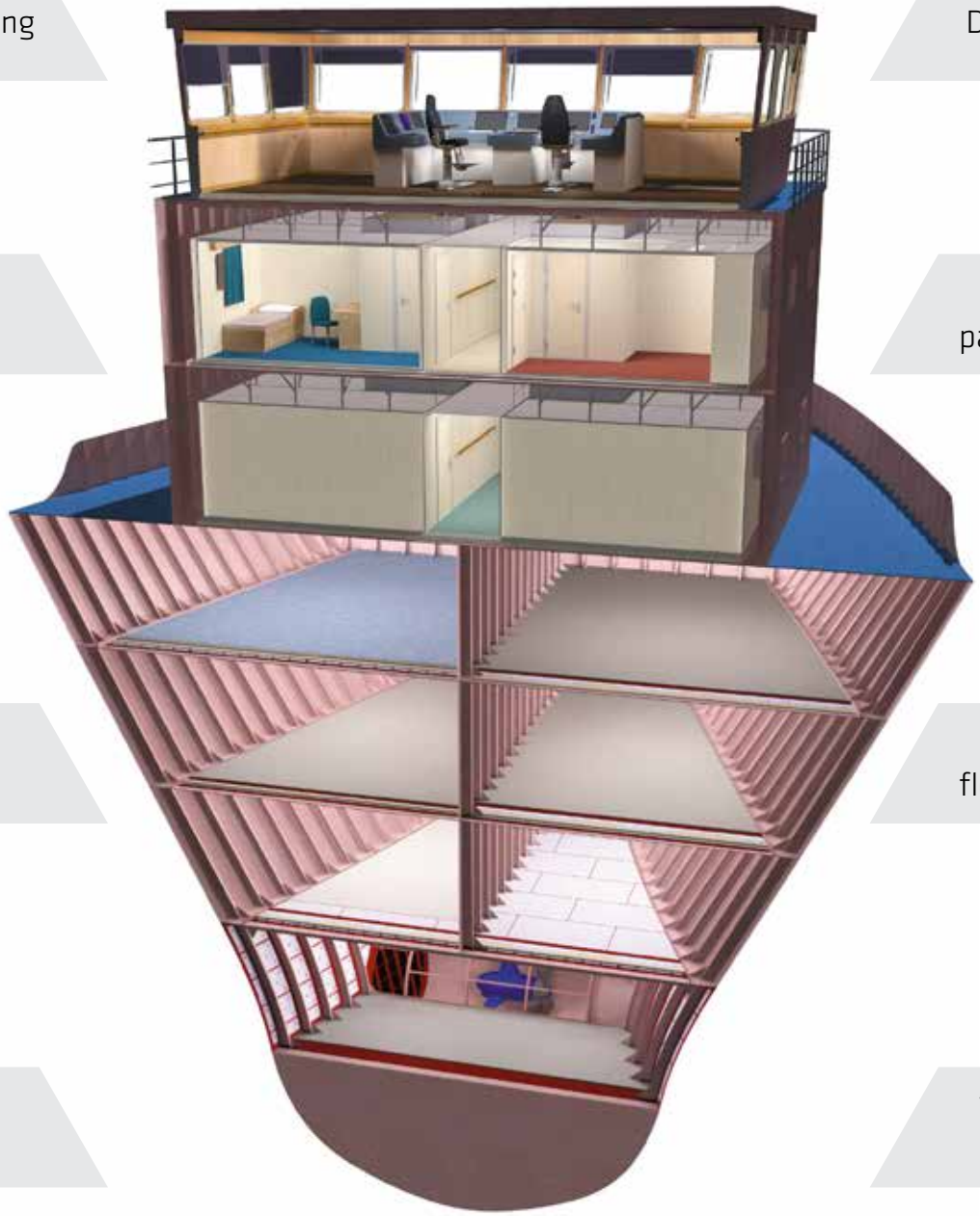


Sikafloor® Marine VISCO-ELASTIC FLOORS
Sikafloor® Marine visco-elastic floors are build-up with a visco elastic layer and a constrained layer applied on top. The constrained layer consists of a non-combustible one-component compound of Sikafloor® Marine or it can be steel or alu tiles. The Sikafloor® Marine visco-elastic product is a special two-component polyurethane or mortar, with only one purpose: dampen the vibrations in the surface.

PROVEN SOLUTIONS FOR COMFORT AND SAFETY

Carpet bonding

Direct glazing



Decorative floors

Sandwich panel bonding

Bulkhead sealing

A-60 floating floors

Levelling compounds

Visco-elastic system

PRIMARY DECK COVERING SYSTEMS

THE SYSTEMS		Density (kg/m³)	Self-levelling	Trowel out	Fast curing	Min.-Max. thickness (mm)
Sikafloor® Marine-100	Fig. 1	900	☺	☹	☹	2-10
Sikafloor® Marine-120	Fig. 1	900	☺	☹	☹	3-30
Sikafloor® Marine-18	Fig. 1	1800	☹	☺	☹	5-25
Sikafloor® Marine-118 FC	Fig. 1	1800	😀	☺	😀	2-25
Sikafloor® Marine KG-202 N	Fig. 1	900	☹	☺	☹	8-100
Sikafloor® Marine KG-404 N	Fig. 1	1300	☹	☺	☹	5-100
Sikafloor® Marine VEM	Fig. 2	1300	☹	☺	☹	1-2
Sikafloor® Marine PU-Red	Fig. 3	1300	☹	☺	☹	1-2
Sikafloor®-264 (tinted)	Fig. 4	1600	☹	☺	☹	2-4
Sikafloor® Marine Elastic	Fig. 5	1400	☹	☺	☹	1-2

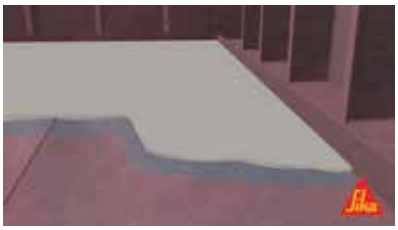


Figure 1

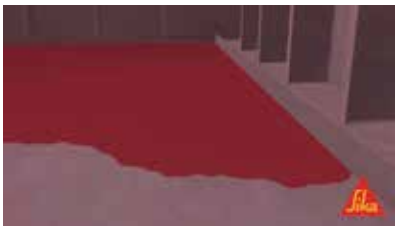


Figure 3

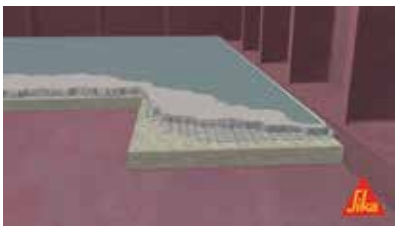


Figure 5

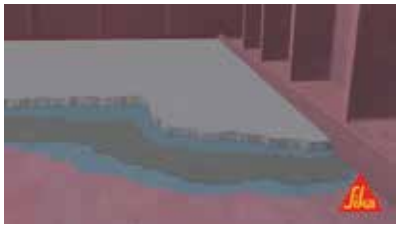


Figure 2

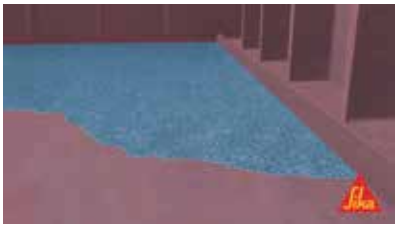


Figure 4

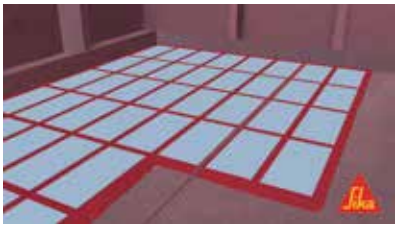


Figure 6

VISCO-ELASTIC SOLUTIONS AND FLOATING FLOOR SINGLE SYSTEMS

SINGLE SYSTEMS			Minimum height (mm)	Structure borne noise	Airborne noise	A-60 approved	Installation time m²/ man-hour
Sikafloor® Marine PK-90 Alu	Fig. 6	Visco-elastic floor	3	😐	☹	☹	4.5
Sikafloor® Marine PK-90 Steel	Fig. 6		3	🙂	☹	☹	4.5
Sikafloor® Marine PK-90 N	Fig. 7		10	😀	☹	☹	5
Sikafloor® Marine VEM-18	Fig. 8		10	😀	☹	☹	5
Sikafloor® Marine VEM-118 FC	Fig. 8		10	😀	☹	☹	5
Sikafloor® Marine VES-515	Fig. 9		3	😐	☹	☹	4.5
Sikafloor® Marine Litosilo N	Fig. 10	Floating floor	45	☹	🙂	🙂	5
Sikafloor® Marine Litosilo FC	Fig. 10		45	☹	🙂	🙂	5
Sikafloor® Marine Litosilo Steel	Fig. 11		55	☹	😀	🙂	1.3
Sikafloor® Marine Litosilo Alu	Fig. 11		26.5	☹	🙂	🙂	1.3
Sikafloor® Marine Litosilo Plus	Fig. 12		51	☹	😀	🙂	1.1

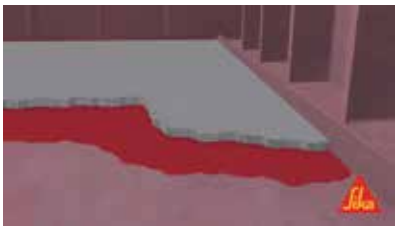


Figure 7

Figure 9

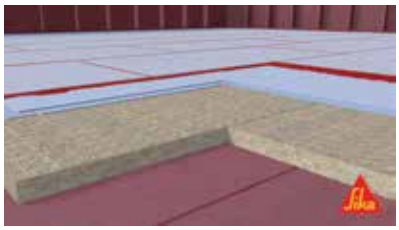


Figure 11

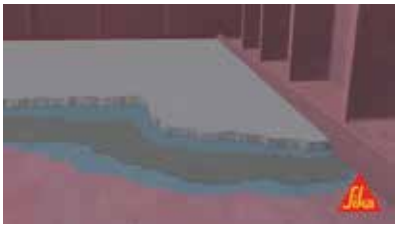


Figure 8

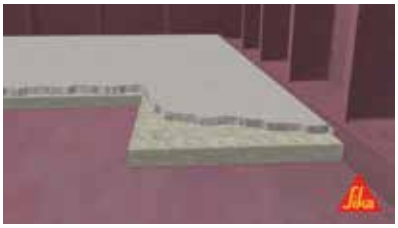


Figure 10

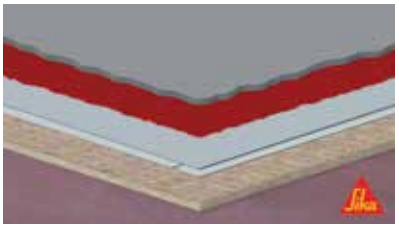


Figure 12

VISCO-ELASTIC AND FLOATING FLOOR COMBINATIONS A-60

A-60 COMBINED SYSTEMS		Minimum height (mm)	Structure borne noise	Airborne noise	Installation time m²/ man-hour
Sikafloor® Marine PK-90 Steel + Litosilo Steel	Fig. 1	59	😀	😀	0.8
Sikafloor® Marine PK-90 Steel + Litosilo N	Fig. 2	48	🙂	🙂	1.3
Sikafloor® Marine PK-90 Steel + Litosilo FC	Fig. 2	48	🙂	🙂	1.3
Sikafloor® Marine PK-90 Steel + Litosilo Plus	Fig. 3	54	😀	😀	0.7
Sikafloor® Marine PK-90 N + Litosilo Steel	Fig. 4	67	😀	😀	0.8
Sikafloor® Marine PK-90 N + Litosilo N	Fig. 5	57	🙂	🙂	1.5
Sikafloor® Marine PK-90 N + Litosilo FC	Fig. 5	57	🙂	🙂	1.5
Sikafloor® Marine PK-90 N + Litosilo Plus	Fig. 6	63	😀	😀	0.7

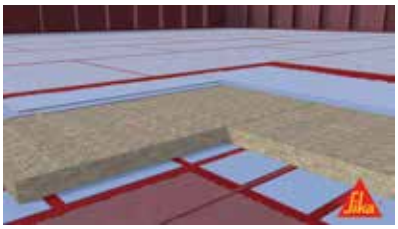


Figure 1

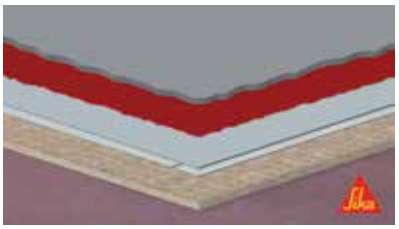


Figure 3

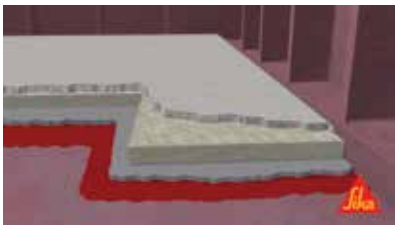


Figure 5

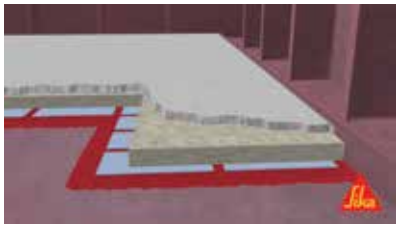


Figure 2

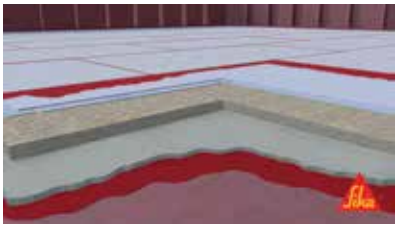


Figure 4

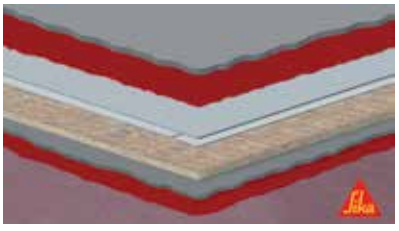


Figure 6

NEW VISCO-ELASTIC AND FLOATING FLOOR COMBINATIONS

NEW COMBINED SYSTEMS		Minimum height (mm)	Structure borne noise	Airborne noise	Installation time m²/ man-hour
Sikafloor® Marine VEM-18 + Litosilo Steel	Fig. 7	67	😀	😀	0.8
Sikafloor® Marine VEM-18 + Litosilo N	Fig. 8	57	🙂	🙂	1.5
Sikafloor® Marine VEM-18 + Litosilo FC	Fig. 8	57	🙂	🙂	1.5
Sikafloor® Marine VEM-18 + Litosilo Plus	Fig. 9	63	😀	😀	0.7
Sikafloor® Marine VEM-118 FC + Litosilo Steel	Fig. 7	67	😀	😀	0.8
Sikafloor® Marine VEM-118 FC + Litosilo N	Fig. 8	57	🙂	🙂	1.5
Sikafloor® Marine VEM-118 FC + Litosilo FC	Fig. 8	57	🙂	🙂	1.5
Sikafloor® Marine VEM-118 FC + Litosilo Plus	Fig. 10	63	😀	😀	0.7

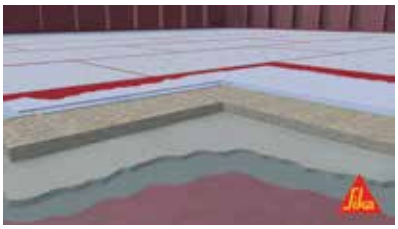


Figure 7

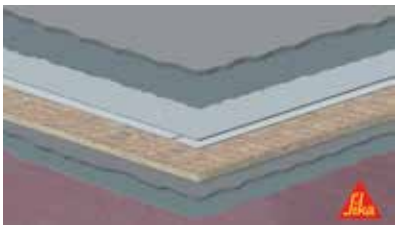


Figure 9

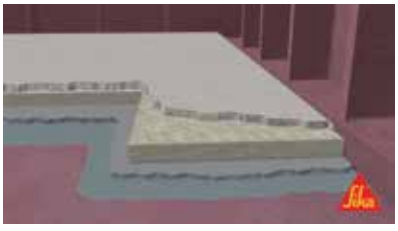


Figure 8

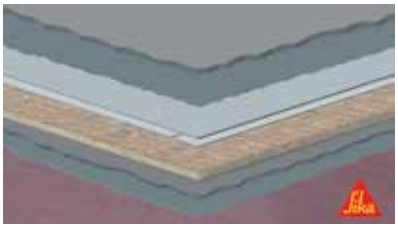
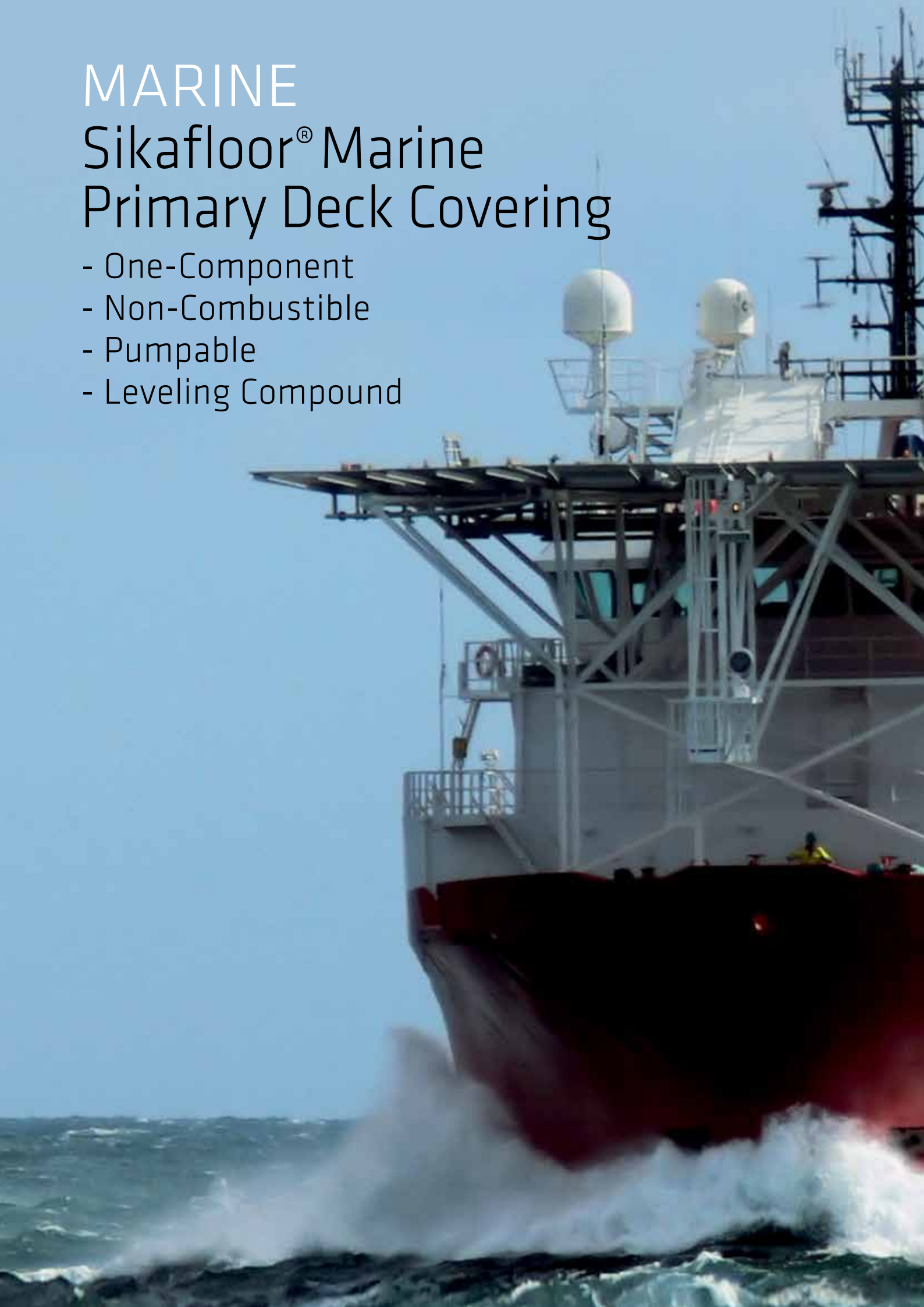


Figure 10



MARINE

Sikafloor® Marine Primary Deck Covering

- One-Component
- Non-Combustible
- Pumpable
- Leveling Compound

Sikafloor® Marine-100, -120 and -190

One-Component, Self-Leveling Primary Deck Covering

Ship builders are looking for quicker and more consistent building techniques and reduced costs, while designers want improved and innovative appearance, lower weight and better performance. As a supplier and partner to the marine industry, Sika provides a range of state-of-the-art technology solutions to assist ship builders in meeting these challenges. Typically decks must be leveled to take out the unevenness of the ship's structure and prepare it for the finished floor.

PRODUCT DESCRIPTION
Sikafloor® Marine self leveling primary deck coverings will level a ship deck to prepare it for the final floor surface. To be able to give the applied carpets, vinyl, tiles, etc. a perfect smooth look, it is important that the underlayment has a smooth surface. Use Sikafloor® Marine self leveling primary deck coverings where the building height as well as the weight of the total underlayment can be limited.

Sikafloor® Marine leveling compounds are based on one component pumpable technology from Sika. The pumpable solution provides cost effective benefits for the shipyard and installation team in logistics, handling and installation time. The onecomponent leveling solution for the steel or aluminum decks give the applicator a timesaving way to level the decks without sacrificing quality. Sikafloor Marine products have IMO & US Coastguard certification.

Sikafloor® Marine-100

Sikafloor® Marine-100 is a one-component, light weight, selfleveling mortar applied in thin layers from **3-10mm.**

BENEFITS:
- Can be applied in dry areas
- Very flexible
- High compressive strength
- Fast curing and walkable after 10-12 hours
- 12 month shelf life
- Pumpable

Sikafloor® Marine-120

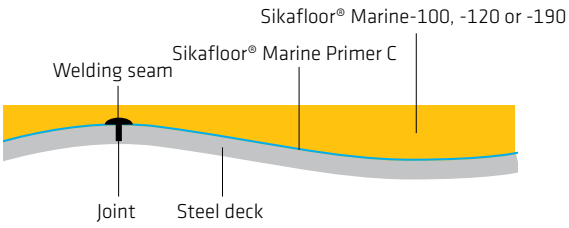
Sikafloor® Marine-120 is a one-component, light weight, selfleveling mortar applied in thin or thicker layers from **3-30mm.**.

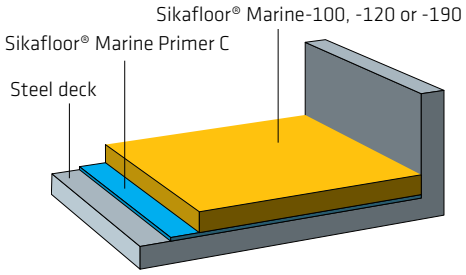
BENEFITS:
- Can be applied in **dry and wet** areas (interior decks)
- Very flexible
- High compressive strength
- Fast curing and walkable after 10-12 hours
- 12 month shelf life
- Pumpable

Sikafloor® Marine-190

Sikafloor® Marine-190 is a one component self-leveling mortar applied in thin or thicker layer from **3-25mm**

BENEFITS:
- Fast curing
- Can be pumped
- Non combustible
- One component, ready to mix
- Easily applicable





APPLICATION STEPS FOR Sikafloor® Marine-100, -120 and -190

1

Priming of steel deck with Sikafloor® Marine Primer C

2

Mixing of Sikafloor® Marine-100 or -120

3

Application of Sikafloor® Marine-100 or -120

4

Final floor

Sikafloor® Marine KG-202 N and KG-404 N

One-Component, Trowelable, Primary Deck Covering

Ship builders are looking for quicker and more consistent building techniques and reduced costs, while designers want improved and innovative appearance, lower weight and better performance. As a supplier and partner to the marine industry, Sika provides a range of state-of-the-art technology solutions to assist ship builders in meeting these challenges. Typically decks must be leveled to take out the unevenness of the ship's structure and prepare it for the finished floor.

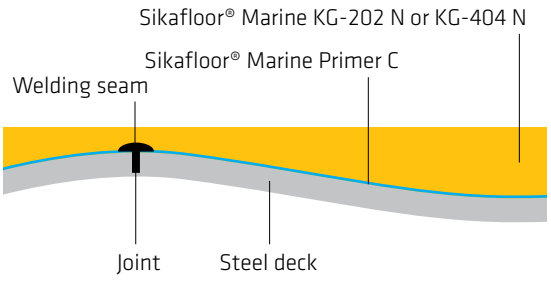
PRODUCT DESCRIPTION

Sikafloor® Marine self leveling primary deck coverings will level a ship deck to prepare it for the final floor surface. To be able to give the applied carpets, vinyl, tiles, etc. a perfect smooth look, it is important that the underlay has a smooth surface. Use Sikafloor® Marine self leveling primary deck coverings where the building height as well as the weight of the total underlay can be limited.

Sikafloor Marine KG 202 & 404 allow for sloped flooring conditions to create ramps between uneven decks or water drainage in wet spaces. Sikafloor® Marine leveling compounds are based on one component pumpable technology from Sika. The pumpable solution provides cost effective benefits for the shipyard and installation team in logistics, handling and installation time. The one-component leveling solution for the steel or aluminum decks give the applicator a timesaving way to level the decks without losing any of the known high quality. Not only does the product save time but can also easily be mixed using only a handheld mixer or a pump. The leveling compounds can be used as traditional leveling compounds.

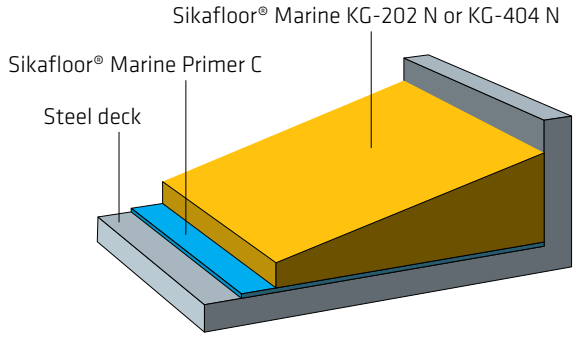
Sikafloor® Marine KG-202 N

Sikafloor® Marine KG-202 N is a **light weight** leveling compound used for interior decks as traditional leveling compound as well as for slopes. Sikafloor® Marine KG-202 N can be **applied from 8 to 100mm (3/8 - 4 in.)**.



Sikafloor® Marine KG-404 N

Sikafloor® Marine KG-404 N is a leveling compound used for interior decks as traditional leveling compound as well as for slopes. Sikafloor® Marine KG-404 N can be **applied from 5 to 100mm (1/4 - 4 in.)**.



APPLICATION STEPS FOR Sikafloor® Marine KG-202 N AND KG-404 N

1

Priming of steel deck with Sikafloor® Marine Primer C

2

Mixing of Sikafloor® Marine KG-202 N and KG-404 N

3

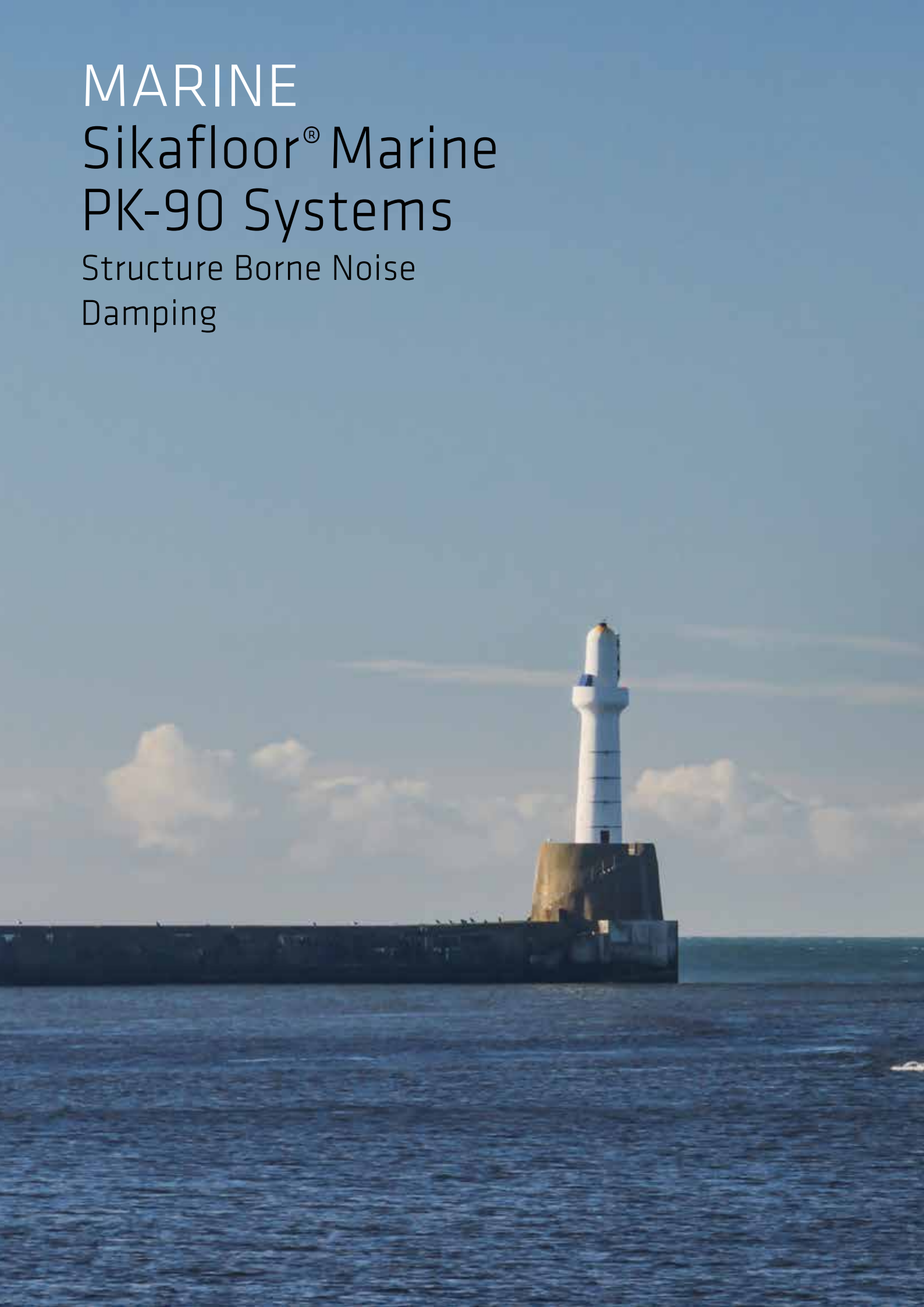
Application of Sikafloor® Marine KG-202 N and KG-404 N

4

Final Floor

For use on zinc, aluminum and anti-corrosion primers containing free zinc and aluminum, please contact your local Sika company.

MARINE
Sikafloor® Marine PK-90 Systems
Structure Borne Noise Damping



Sikafloor® Marine PK-90 Systems

Vibration Damping Visco-Elastic Solutions

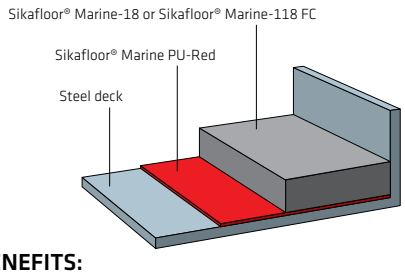
Noise sources like main engines, thrusters, pumps, generators, HVAC, loud music and foot traffic create not only airborne noise but also a lot of vibrations in the whole structure. Without treatment, vibration causes structure bone noise in the form of rattling and humming. This type of noise makes it difficult for communication and proper rest while on board the ship. It is crucial for the crew to have an environment where they can work and, more importantly, where they can rest without being exposed to dangerous noise and vibrations.

Product Description

Sikafloor® Marine PK-90 are visco elastic systems that are built up with a flexible layer applied to the deck with a constrained layer installed on top. The flexible visco-elastic layer is the Sikafloor® Marine PU Red which is a two component polyurethane. The constrained layer is either a water based cement mortar compound of Sikafloor Marine 18, Sikafloor Marine 118 Fast Cure (FC), or steel tiles. PK-90 systems have the flexibility and the mass needed to dampen the vibrations of vessels, especially in the lower frequency range produced by engines, thrusters and other noise sources. Sikafloor Marine products have IMO & US Coastguard certification.

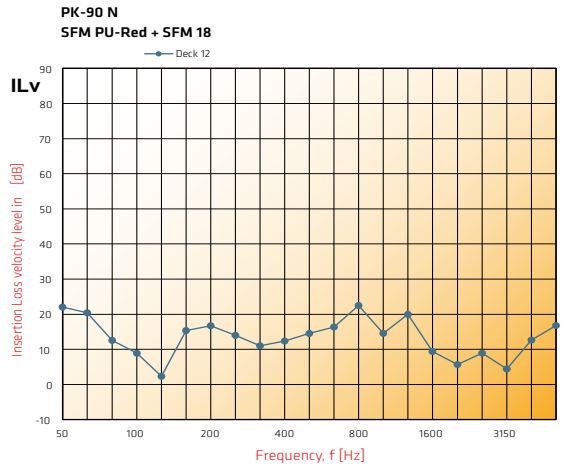
Sikafloor® Marine PK-90 N

Sikafloor® Marine PK-90 N is a visco-elastic system built up by a layer of Sikafloor® Marine PU-Red and a constrained layer of the one-component pumpable Sikafloor® Marine-18 or -118 FC. From a building height of only 10 mm, Sikafloor® Marine PK-90 N not only dampens vibrations but also levels out the deck and can easily be continued with a thin layer of Sikafloor® Marine-100 or -120 before applying carpet, vinyl, tiles, etc.



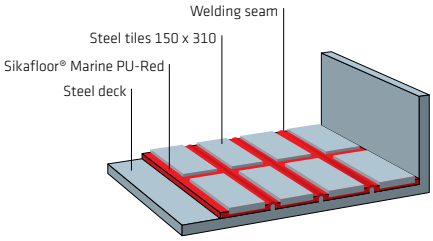
BENEFITS:

- Deck leveling and vibration control in one system
- Very good vibration damping performance
- One-comp. cement based top layer
- Optional fast cure top layer - walk able in 2 hours



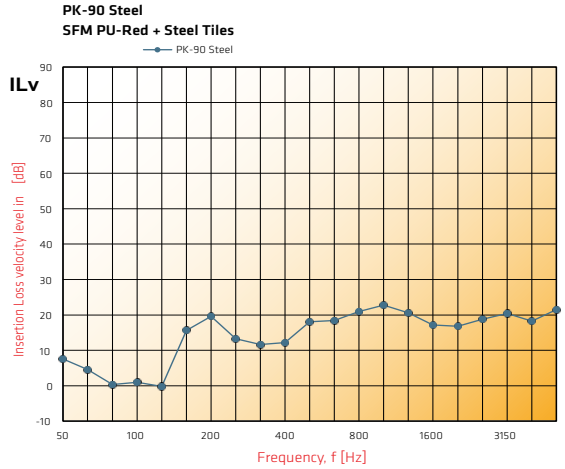
Sikafloor® Marine PK-90 N Steel

Sometimes building height can be limited and there is not enough space for a 10 mm visco-elastic solution. In this situation, Sika offers a visco-elastic solution called Sikafloor® Marine PK-90 Steel. This visco-elastic system can be applied in the height of only 3 – 6 mm. This is possible using thin steel tiles that are bonded into the wet layer of the Sikafloor Marine PU Red during installation.

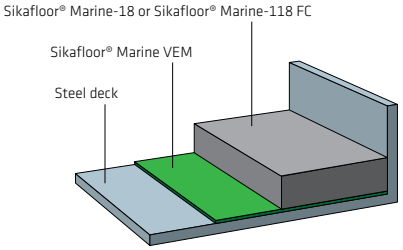


BENEFITS:

- Lowest profile solution at only 3-6 mm in thickness
- Good vibration damping performance
- One day application
- Easy to combine with Sika's floating floor (Litosilo) systems



Product Descriptions
Sikafloor® Marine VEM 18 and VEM 118 FC systems are breakthrough environmentally friendly visco-elastic systems that are built up with a flexible layer applied to the deck with a constrained layer installed on top. The flexible layer is made up of our new visco-elastic mortar (VEM). This unique flexible, cementitious mortar offers a one component water based material with no isocyanate or dangerous goods handling. VEM comes in bags and is mixed in the same way as the other mortar compounds making the installation of VEM solution easier to control. VEM systems have the flexibility and the mass needed to dampen the vibrations of vessels, especially in the lower frequency range produced by engines, thrusters and other noise sources.



Sikafloor® Marine VES 515

Sikafloor® Marine VES 515 is a one-component visco-elastic silane terminated polymer based product and is used as a visco-elastic vibration damping system. It is used on steel decks and bulkheads. For specific applications consult the product data sheet or Sika technical service.

PRODUCT BENEFITS
- Great vibration damping
- Damping loss factor 21%
- Fast to apply
- Silicone and PVC-free
- Isocyanate- and solvent- free
- 1-Component solution

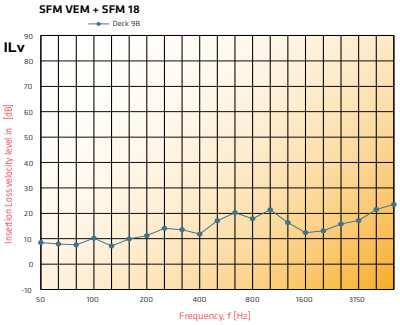
VES 515 visco-elastic system for bulkhead

Technical Properties	
Chemical base	STP technology
Density	1.5 kg/m²/mm
Applied thickness	1 – 2 mm
Elongation at break	300%
Tensile strength	1.1 N/mm²
Shore A	25
Tear resistance	5.0 N/mm

Sikafloor® Marine VEM 18

Sikafloor Marine VEM is a visco elastic system built up of a layer of Sikafloor Marine visco-elastic mortar and a constrained layer of one-component pumpable Sikafloor® Marine-18. From a building height of only 10 mm, Sikafloor® Marine VEM 18 not only dampens vibrations but also levels out the deck and can easily be continued with a thin layer of Sikafloor® Marine-100 or -120 before applying carpet, vinyl, tiles, etc.

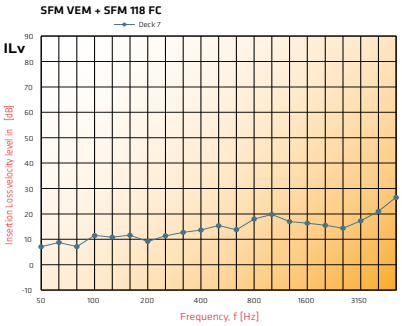
BENEFITS:
- Deck leveling and vibration control in one system
- Very good vibration damping performance
- One comp. cement based system
- Green technology
- Isocyanate free
- No dangerous goods



Sikafloor® Marine VEM 118 FC

Sikafloor Marine VEM FC is a visco elastic fast cure system built up of a layer of Sikafloor Marine visco-elastic mortar and a constrained layer of the one-component pumpable Sikafloor® Marine-118 FC. From a building height of only 10 mm, Sikafloor® Marine VEM 118 FC not only dampens vibrations but also levels out the deck. Due to the smooth finish of Sikafloor Marine 118 FC a final screed layer is not required.

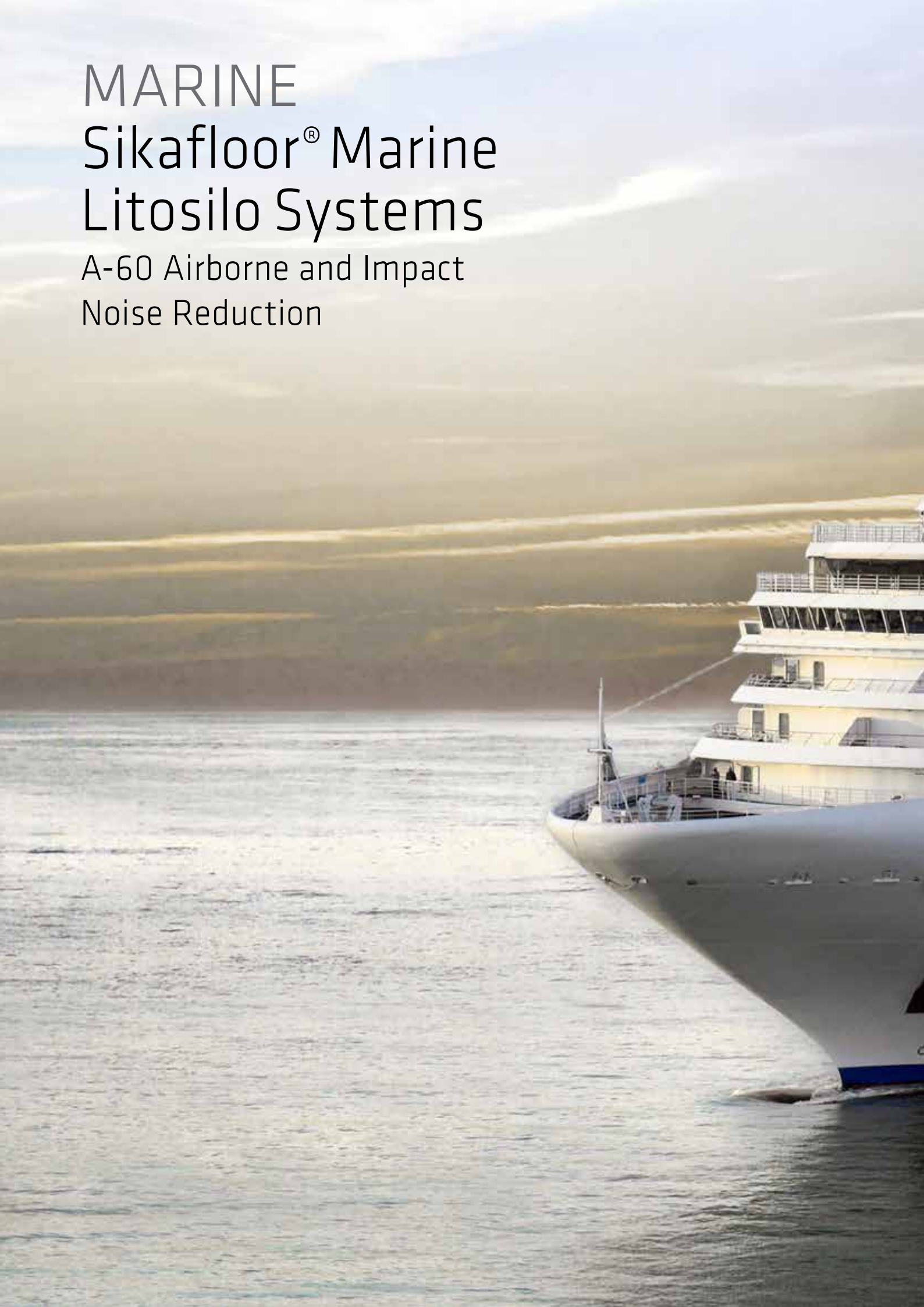
BENEFITS:
- Deck leveling and vibration control in one system
- Very good vibration damping performance
- One comp. cement based system
- Fast cure top layer - walkable in 2 hours
- Smooth finish of mortar saves time by not requiring a final screened layer
- Green technology
- Isocyanate free
- No dangerous goods



MARINE

Sikafloor® Marine Litosilo Systems

A-60 Airborne and Impact Noise Reduction

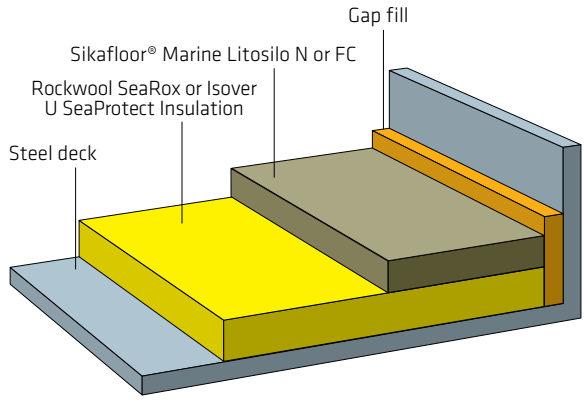


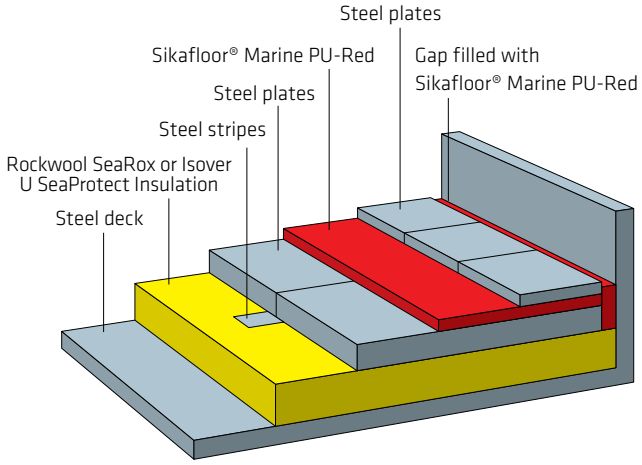
Sikafloor® Marine Litosilo Systems

Air Borne and Impact Sound Reduction Solutions

Being onboard a commercial vessel or cruise ship means being exposed to noise 24 hours a day. Loud noise is coming from sources such as main engine, bow thrusters, HVAC-system and other electrical installations. If nothing is being done to reduce the problem, crew members can quickly start to get sick and feel dizzy and they will soon be a danger to themselves, the rest of the crew as well as the vessel. Therefore, international authorities throughout the years have set the standards very high when it comes to comfort onboard all commercial and passenger vessels. It is crucial for the crew to have an environment where they can work and, more importantly, where they can rest without being exposed to dangerous noise and vibrations.

Product Description
Sikafloor® Marine Litosilo systems are floating floor systems. The systems consist of mineral wool fireproof insulation and Sikafloor Marine Litosilo mortar to reduce airborne and impact noise. The systems also provide an A-60 solution with a building height as low as 45 mm. Sikafloor Marine Litosilo systems can be combined with Sika Visco-Elastic systems to reduce both low frequency structure
borne noise and higher frequency air borne noise for comfort class accommodation noise levels and A-60 fire protection.





CERTIFICATES
Sikafloor® Marine products have been approved according to the IMO, US Coastguard, and other major authorities and classification societies.

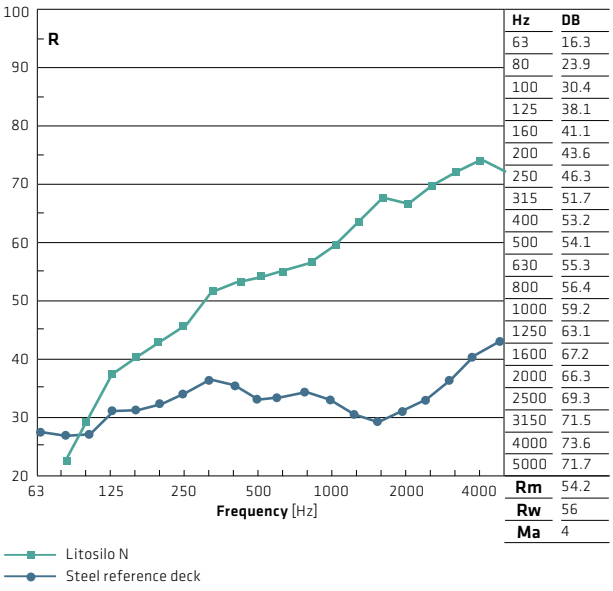
Sikafloor® Marine Litosilo N or FC

Sikafloor® Marine Litosilo N or FC are one-component, non-combustible, pumpable systems that provide an A-60-fire rated solution with low building height. The first layer in the system is a minimum 20 mm of mineral wool on which the Sikafloor® Marine Litosilo compound is then applied in only 25 mm thickness, giving the whole system a low building height of only 45 mm. Sikafloor® Marine Litosilo mortars are very flexible (low e-modulus), and reduce the risk of cracks in the surface and come in both a standard cure and fast cure version.

BENEFITS

- A-60 approved from 45 mm
- Levels out the deck
- Optional fast cure top layer - walk able in 2 hours
- High noise reduction performance
- One-component pumpable compound

SOUND PERFORMANCE OF Sikafloor® Marine Litosilo N



Hz	DB
63	16.3
80	23.9
100	30.4
125	38.1
160	41.1
200	43.6
250	46.3
315	51.7
400	53.2
500	54.1
630	55.3
800	56.4
1000	59.2
1250	63.1
1600	67.2
2000	66.3
2500	69.3
3150	71.5
4000	73.6
5000	71.7
Rm	54.2
Rw	56
Ma	4

Source: Lloyds register ODS

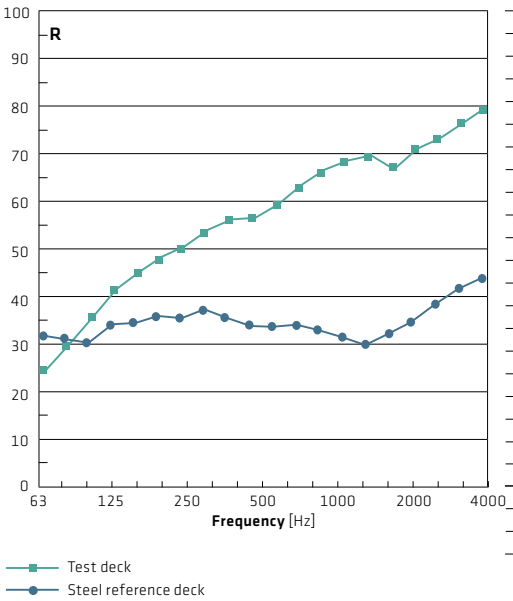
Sikafloor® Marine Litosilo Steel

Sikafloor® Marine Litosilo Steel is a floating floor solution with A-60 approval from a building height of 55.5 mm. The first layer in the solution is a 50 mm mineral wool on which 2 layers of steel plates are applied bonded together with Sika-floor® Marine PU-Red or any wheelmarked adhesive from Sika. The Sikafloor® Marine Litosilo Steel has a fast curing time and allows installation teams to proceed with final deck covering after 1 day.

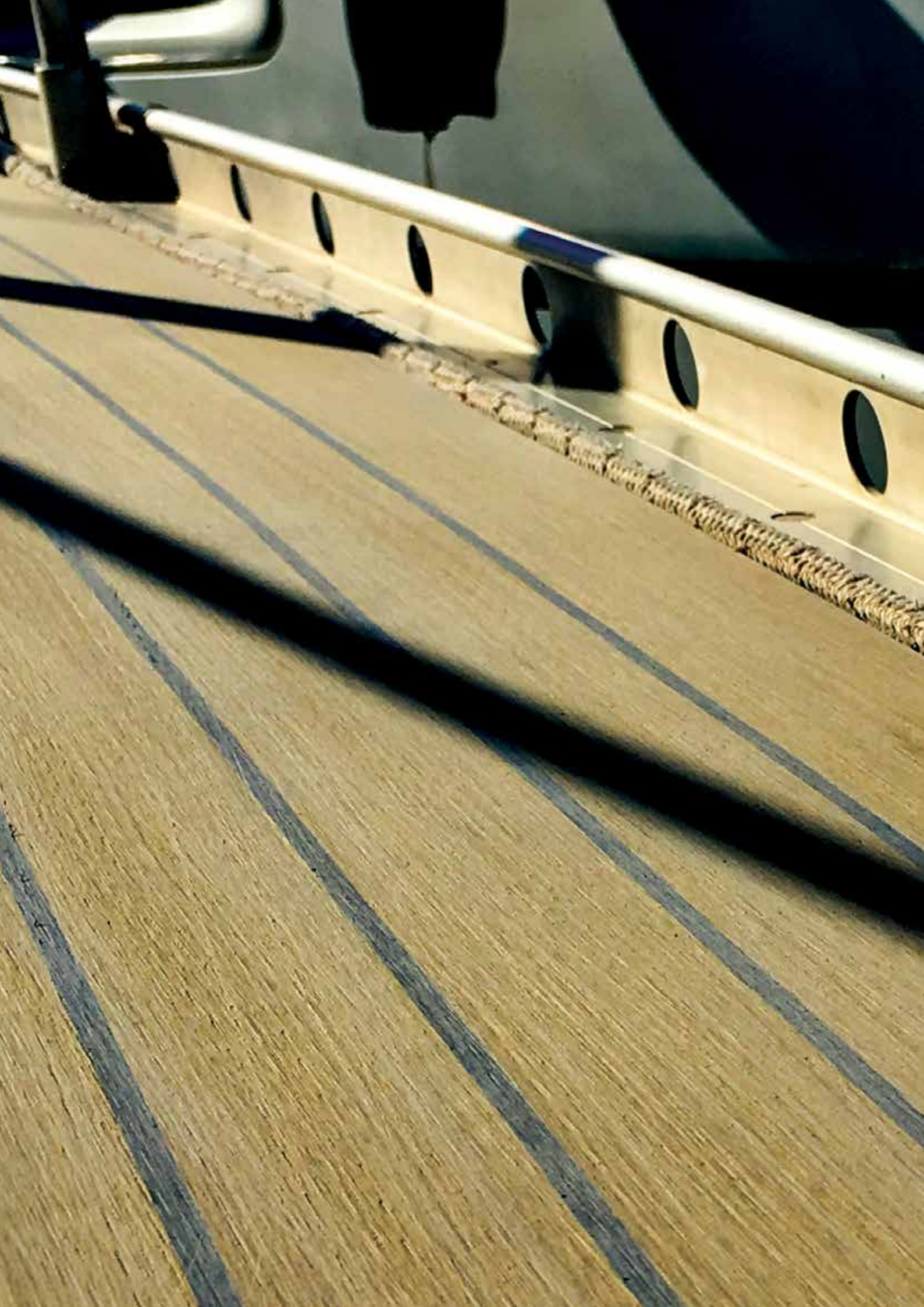
BENEFITS

- A-60 approved from 55.5 mm
- Levels out the deck
- High noise reduction performance
- Can be applied in one day

SOUND PERFORMANCE OF Sikafloor® Marine Litosilo Steel



Hz	dB
63	23.8
80	29.1
100	34.7
125	40.8
160	44.4
200	47.6
250	50.0
315	53.5
400	55.5
500	55.9
630	58.7
800	62.7
1000	66.0
1250	68.0
1600	68.9
2000	66.0
2500	70.5
3150	72.6
4000	75.7
5000	79.1
Rm	57.2
Rw	60
Ma	8



Sikafloor® Marine Decorative Floors

Sikafloor Marine Systems has gained a world-wide experience in the field of deck coverings on commercial vessels, yachts, and cruise ships. Our decking systems are proven to be the best in class due to factors such as ease of installation, low weight, improvements in acoustics and superior aesthetics. Now Sika is launching a new range of polyurethane interior and exterior decorative flooring products. Many different colours and designs are allowable with this new line of products including a teak deck effect.

Sika Transfloor 352 Series leveling underlayment
An easy to use 2 components fast curing, self-levelling polyurethane under-layer, used in areas with a maximum deformation of 5-7 mm. Typically an average of 6-8 mm of the levelling layer will be used. This durable layer provides levelling for the deck and acts as a foundation for the application of the decorative synthetic teak layer.

Sikafloor marine 500 series decorative top floor
Composite, long life, lightweight, durable, liquid applied resin system that offers excellent grip in both dry and wet conditions. While the Sikafloor Marine 500 series looks great it also is resistant to the most common oils, greases, juices, salts and solvents. It does not break, crack or splinter, and is easy to clean and maintain. When it comes to outside steel decks, the system provides and extra layer of corrosion protection. The Sikafloor Marine 500 series is available both as Synthetic Teak deck or plain colour systems and provides a low total cost of ownership. Installation is faster and the maintenance of the deck will be less over the life of the vessel.

Deck preparation:
The steel surface has to be shot-blasted SA 2.5 and a 2K epoxy holding primer (SikaCor ZP Primer, 200 g/m2 has to be applied before levelling. This steel treatment has to be done by third party or the shipyard.
The treatment of the vertical connections and any area not reachable with blasting machine has to be done with portable mechanical preparation tools in ST3 grade.

MARINE
Sikafloor® Marine
- Epoxy Systems and
- Water Proofing Membrane

Sikafloor® Marine 264

2-part epoxy roller and seal coat

SIKAFLOOR®-264 is a two part, economic, coloured epoxy resin. "Total solid epoxy composition acc. to the test method Deutsche Bauchemie e.V. (German Association for construction chemicals)"

PRODUCT BENEFITS

- Good chemical and mechanical resistance
- Easy application
- Economical
- Liquid proof
- Gloss finish
- Slip resistant surface possible

AREAS OF APPLICATION

Roller coat for concrete and cement screeds with normal up to medium heavy wear e.g. storage and assembly halls, maintenance workshops, garages and loading ramps.
Seal coat for broadcast systems, such as multi-storey and underground car parks, maintenance hangars and for wet process areas, e.g. beverage and food industry

PRODUCT DATA			
Chemical Base	Epoxy		
Density	Part A:	~ 1.64 kg/l	(DIN EN ISO 2811-1)
	Part B:	~ 1.00 kg/l	
	Mixed resin:	~ 1.40 kg/l	
	All Density values at +23°C.		
Solid Content	~ 100% (by volume) / ~ 100% (by weight)		

MECHANICAL / PHYSICAL PROPERTIES		
Compressive Strength	Resin (filled 1:0,9 with F34): ~ 53 N/mm2 (28 days / +23°C)	(EN 196-1)
Flexural Strength	Resin (filled 1:0,9 with F34): ~ 20 N/mm2 (28 days / +23°C)	(EN 196-1)
Bond Strength	> 1.5 N/mm² (failure in concrete)	(ISO 4624)
Shore D Hardness	76 (7 days / +23°C)	(DIN 53 505)
Abrasion Resistance	41 mg (CS 10/1000/1000) (8 days / +23°C)	(DIN 53 109 (Taber Abrader Test))

RESISTANCE		
Chemical Resistance	Resistant to many chemicals. Please ask for a detailed chemical resistance table.	
Thermal Resistance	Exposure*	Dry heat
	Permanent	+50°C
	Short-term max. 7 d	+80°C
	Short-term max. 12 h	+100°C
	Short-term moist/wet heat* up to +80°C where exposure is only occasional (steam cleaning etc.)	
	*No simultaneous chemical and mechanical exposure.	

STORAGE		
Storage Conditions / Shelf-Life	24 months from date of production if stored properly in original, unopened and undamaged sealed packaging in dry conditions at temperatures between +5°C and +30°C	




Sikafloor®-169

2-part epoxy binder for mortars, screeds and top coats

SIKAFLOOR®-169 is a two part, very low yellowing, low viscous, transparent epoxy resin. "Total solid epoxy composition acc. to the test method Deutsche Bauchemie e.V. (German Association for construction chemicals)"

CHARACTERISTICS / ADVANTAGES
- Transparent
- Low VOC-content
- Low yellowing
- Good mechanical and abrasion resistance
- Low viscous
- Easy application
- Multi-purpose binder

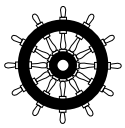
USES
- Transparent binder for coloured quartz mortars and screeds like Sika- CompactFloor and Sika-DecoFloor
- Transparent sealer coat for broadcast colour quartz mortar screeds and smooth coatings fully broadcast to excess with coloured chips
- Suitable for normal up to medium heavy and heavy mechanical loading
- Particularly used in the food and pharmaceutical industries, for show rooms, workshops and production areas etc.

Sikafloor® Marine Elastic

Water proofing mortar membrane
Sikafloor® Marine Elastic is a one-component waterproofing membrane, based on polymer modified cement. The product is used on porous surfaces as a water proofing layer in wet areas such as changing rooms, galleys, pantries and toilets. For specific applications consult the product data sheet or Sika technical service.

PRODUCT BENEFITS
- Primerless
- Thin layer membrane
- High flexibility
- Applicable on humid substrates
- Adjustible consistency
- Good cracking-bridging property
- Roller, brush or spatula applied

Technical Properties	
Chemical base	1-Component polymer
Density	1.4 kg/m²/mm
Applied thickness	1 – 2 mm
Crack-bridging properties	Class A3
Tensile strength	0.6 N/mm²
Shore A	75
Shelf life	12 months



GLOBAL BUT LOCAL PARTNERSHIP

WHO WE ARE

Sika is a specialty chemicals company with a leading position in the development and production of systems and products for bonding, sealing, damping, reinforcing and protecting in the building sector and the motor vehicle industry. Sika has subsidiaries in 94 countries around the world and manufactures in over 170 factories. Its more than 17,000 employees generated annual sales of CHF 5.49 billion in 2015.

All Products and Systems are Wheelmarked

Sika Norge AS
Sanitetsveien 1
N-2013 Skjetten
Postboks 71, N-2026 Skjetten
Norge

Kontakt oss
Tlf.: 67 06 79 00
kundeservice@no.sika.com
www.sika.no

BUILDING TRUST