

# APPLICATION MANUAL

## Sikafloor® Marine

### Cementitious floating floor

Sikafloor® Marine-18  
Sikafloor® Marine Litosilo N  
Sikafloor® Marine Litosilo X

NOVEMBER.2020 / VERSION 01 / SIKA SERVICES AG



## HEALTH AND SAFETY EQUIPMENT

Use protection gear according to the most current Safety Data Sheet.

## REQUIREMENTS (PRECONDITIONS AND ACTIONS)

The following requirements are essential and mandatory to create acoustic floors meeting the corresponding sound test reports and certificates such as IMO approvals.

- Use this application manual in conjunction with the current Product Data Sheet.
- Application may only be performed by trained professional flooring contractors.
- The area must be protected from weather conditions.
- Ensure that access to the application area is restricted to the installation team.
- Ambient and substrate temperature needs to be between 5 °C and 30 °C.
- Do not apply Sikafloor® Marine products if the relative humidity is above 80 %.

## SYSTEM BUILD UP / COVERAGE

Product Sikafloor® Marine		-18	Litosilo N	Litosilo X
Thickness	10 mm	18 kg/m <sup>2</sup>	13 kg/m <sup>2</sup>	13 kg/m <sup>2</sup>
Thickness	15 mm	27 kg/m <sup>2</sup>	19.5 kg/m <sup>2</sup>	19.5 kg/m <sup>2</sup>
Thickness	25 mm	45 kg/m <sup>2</sup>	32.5 kg/m <sup>2</sup>	32.5 kg/m <sup>2</sup>

For the mortar layers always consider that the practical consumption is related to the application and the complexity of the area (pipe penetrations, columns, etc.). Always consider that the practical consumption is related to application, deck deviations (tolerances), etc. It is recommended to add 10 % to the theoretical consumption to cover the mentioned factors.

## ADDITIONAL INFORMATION

For most current versions of IMO approvals and other Marine certificates contact your local Sika representative.

The individual Product Data Sheet shall prevail over this "Application Manual".


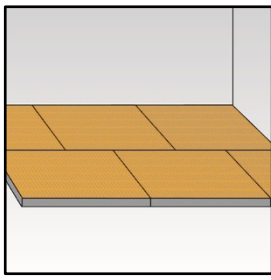
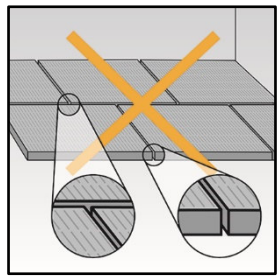
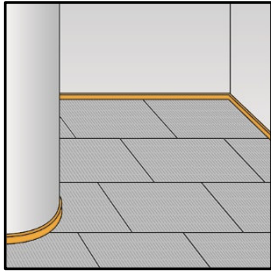
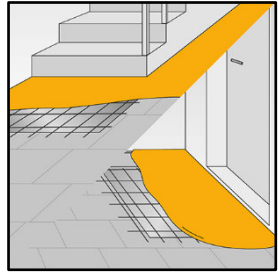
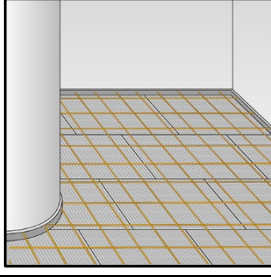
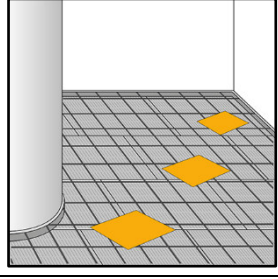
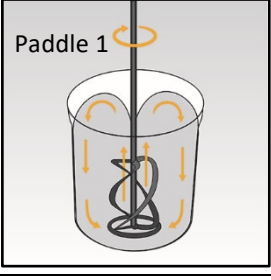
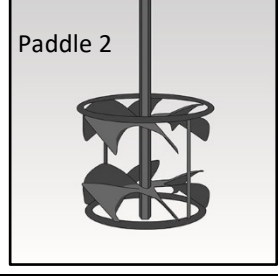
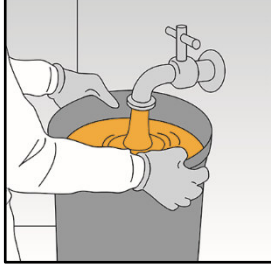
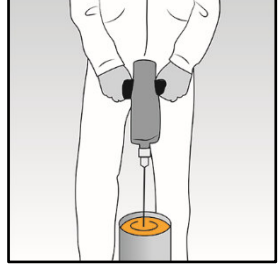
All conditions stated in the individual Product Data Sheet regarding application, storage, etc. shall continue to apply.

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AM Sikafloor® Marine-Cementitious-floating-floors -CORP-en-11-2020-V1  
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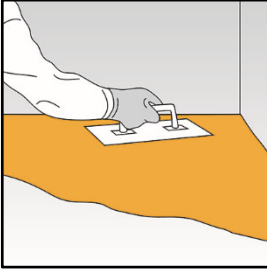
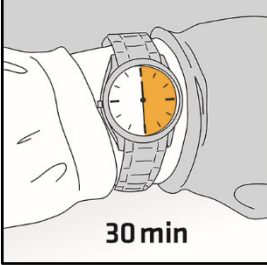
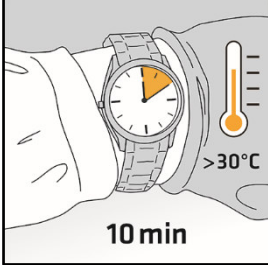
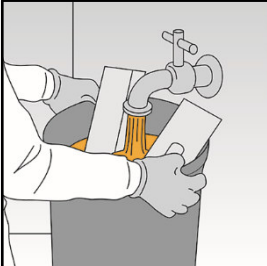
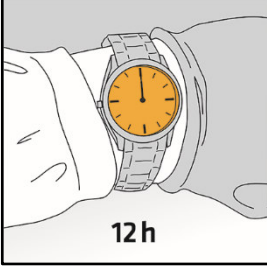
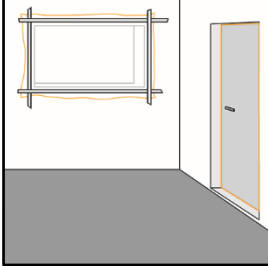
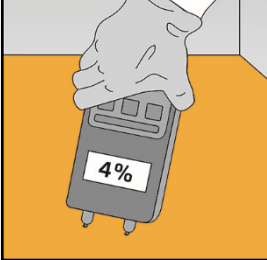
## APPLICATION STEPS

1	<p>Clean the steel or aluminum deck with a broom</p>												
2	<p>Apply the correct Insulation slabs avoiding gaps between them. The insulation must be applied staggered with half a plate overlay.</p>												
3	<p>Apply foam-tape or insulation along the walls, pipe penetrations, columns etc. to avoid short circuit between flooring system and structure.</p> <p>Apply reinforcement in front of doors, end of staircases and other heavy loaded areas. This is usually accomplished with wire-mesh combined with steel plates.</p>												
4	<p>Apply the reinforcement wire-mesh directly on the insulation. Place some hard boards on the wire-mesh to avoid damaging of the insulation during the installation of the Sikafloor® Marine product.</p>												
5	<table border="1" style="width: 100%; border-collapse: collapse;"> <thead> <tr style="background-color: #0056b3; color: white;"> <th style="width: 50%;">Mixing paddle type 1</th> <th style="width: 50%;">Mixing paddle type 2</th> </tr> </thead> <tbody> <tr> <td>10-15 Kg; Ø 100mm</td> <td>5-15 Kg; Ø 90mm</td> </tr> <tr> <td>15-25 Kg; Ø 120mm</td> <td>15-30 Kg; Ø 120mm</td> </tr> <tr> <td>20-40 Kg; Ø 140mm</td> <td>30-50 Kg; Ø 150mm</td> </tr> <tr> <td>30-60 Kg; Ø 160mm</td> <td></td> </tr> </tbody> </table> <p>Mixer Type and diameter required to mix the defined volume</p> <p>Use the remaining water to adjust the consistency</p>	Mixing paddle type 1	Mixing paddle type 2	10-15 Kg; Ø 100mm	5-15 Kg; Ø 90mm	15-25 Kg; Ø 120mm	15-30 Kg; Ø 120mm	20-40 Kg; Ø 140mm	30-50 Kg; Ø 150mm	30-60 Kg; Ø 160mm		<p>Paddle 1</p> 	<p>Paddle 2</p> 
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6	<p>Put the lower amount of the cold potable water in a bucket and add one bag of the actual Sikafloor® Marine product. Mix with mixing paddles (approx. 400 rpm) for about 5 minutes until a homogeneous mortar is obtained.</p> <table border="1" style="width: 100%; border-collapse: collapse;"> <thead> <tr style="background-color: #0056b3; color: white;"> <th style="width: 50%;">Sikafloor® Product</th> <th style="width: 50%;">Potable water amount in liters</th> </tr> </thead> <tbody> <tr> <td>Sikafloor® Marine-18</td> <td>2.7 – 3.3 l / 25 kg bag</td> </tr> <tr> <td>Sikafloor® Marine Litosilo N</td> <td>4.6 – 5.4 l / 20 kg bag</td> </tr> <tr> <td>Sikafloor® Marine Litosilo X</td> <td>4 – 4.6 l / 20 kg bag</td> </tr> </tbody> </table>	Sikafloor® Product	Potable water amount in liters	Sikafloor® Marine-18	2.7 – 3.3 l / 25 kg bag	Sikafloor® Marine Litosilo N	4.6 – 5.4 l / 20 kg bag	Sikafloor® Marine Litosilo X	4 – 4.6 l / 20 kg bag				
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7	<p>Pour the Sikafloor® Marine mortar on the floor and apply with a straight edge and a float. Use a flooring trowel to smooth the floor.</p>		
8	<p>Make sure to complete the application within the working time of 30 minutes.</p> <p><b>IMPORTANT:</b> In case of temperature above 30 °C the working time will be reduced to 10 minutes or less.</p>	 <p>30 min</p>	 <p>10 min</p>
9	<p>After finishing application clean tools with water immediately after use.</p> <p><b>Note:</b> Harden material can only be removed mechanically.</p>		
10	<p>Allow the floor to cure for at least 12 hours.</p> <p>Protect the applied floor against freezing, direct heat / sunshine and draught.</p> <p><b>IMPORTANT:</b> Do not walk on it during the curing period.</p>	 <p>12h</p>	
11	<p>Ensure that the Sikafloor® Marine product is fully dry (water content max 4 %) before any subsequent application of vinyl's, coatings etc.</p>		

**IMPORTANT:** For further build-up of the floor system, consult the corresponding “Additional Product Information” (API) regarding surface quality and required steps.

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## Disclaimer

The information contained herein and any other advice are given in good faith based on Sika's current knowledge and experience of the products when properly stored, handled and applied under normal conditions in accordance with Sika's recommendations. The information only applies to the application(s) and product(s) expressly referred to herein. In case of changes in the parameters of the application, such as changes in substrates etc., or in case of a different application, consult Sika's Technical Service prior to using Sika products. The information contained herein does not relieve the user of the products from testing them for the intended application and purpose. All orders are accepted subject to our current terms of sale and delivery. Users must always refer to the most recent issue of the local Product Data Sheet for the product concerned, copies of which will be supplied on request.

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