



# APPLICATION MANUAL

## Sikafloor® Marine

### Litosilo Steel floating floors

Sikafloor® Marine Litosilo Steel

NOVEMBER.2020 / VERSION 01 / SIKA SERVICES AG



**BUILDING TRUST**



## 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   | Thickness | Weight kg/m <sup>2</sup>                         |
|---------|---|-----------|--|
| Layer 1 | Rockwool SL 436                                     | 50 mm     | 7.0 kg/m <sup>2</sup>                            |
| Layer 2 | Electro galvanized steel plates 1000 x 2000 mm      | 3 mm      | 24 kg/m <sup>2</sup>                             |
| Layer 3 | SikaForce®-472 FR L60<br>SikaForce®-420 L45 or L105 | 0.5 mm    | 0.42 kg/m <sup>2</sup><br>0.45 kg/m <sup>2</sup> |
| Layer 4 | Electro galvanized steel plates 1000 x 2000 mm      | 1.5 mm    | 12 kg/m <sup>2</sup>                             |

For all layers always consider that the practical consumption is related to the application, deck deviations (tolerances) and the complexity of the area (pipe penetrations, columns, etc.). If the deck unevenness is more than  $\pm 5$  mm it must be pre-levelled before starting the installing. In case of A-60 floors the pre-levelling product needs to be non-combustible. To meet the practical consumption it is recommended to add 10 % to the theoretical consumption of the products above to cover the mentioned factors.


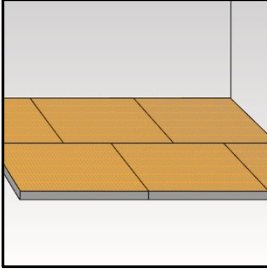
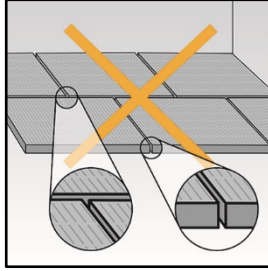
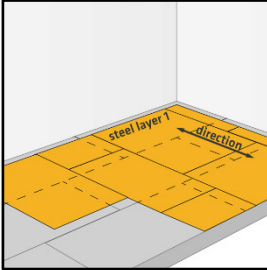
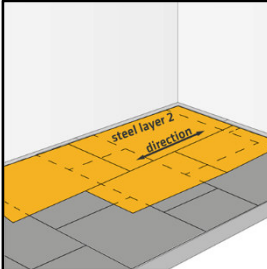
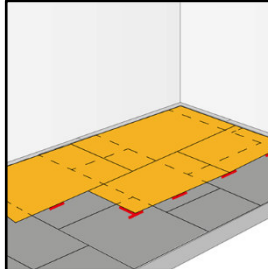
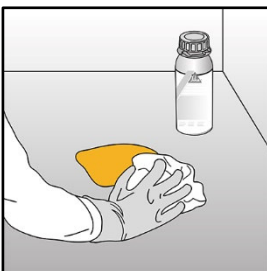
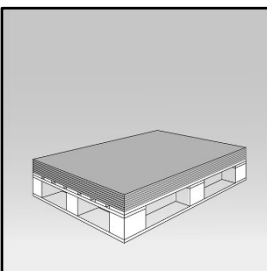
## ADDITIONAL INFORMATION

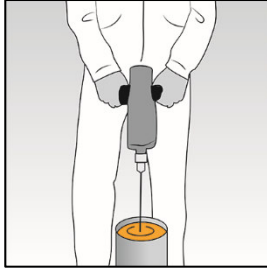
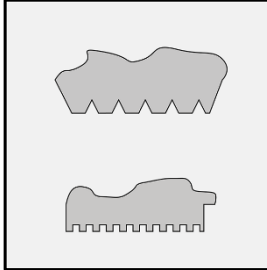
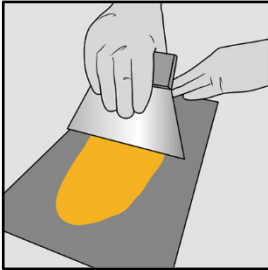
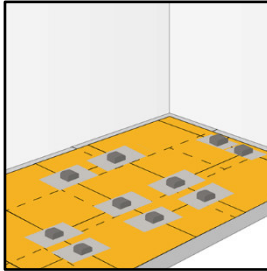
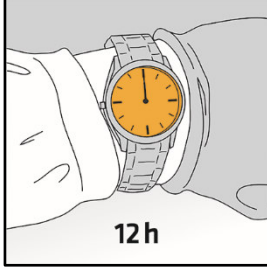
For most current versions of IMO approvals and other Marine certificates contact your local Sika representative.

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.

## APPLICATION STEPS

|            |  |  |   |
|------------|--|--|---|
| <h1>1</h1> | <p>Clean the steel or aluminum deck with a broom</p>   |    |   |
| <h1>2</h1> | <p>Apply the correct insulation slabs avoiding gap between them. The insulation must be applied staggered with half a plate overlay.</p> <p><b>IMPORTANT:</b> Never use wet or damaged slabs.</p>  |    |    |
| <h1>3</h1> | <p>Apply the bottom layer of steel plates in a 90° angle on top of the insulation, the plates must be placed close together. Make sure to have a minimum distance of 10 mm to all structure (floating floor).</p>  |   |   |
| <h1>4</h1> | <p>Apply the following layer of steel plates again in a 90° angle on top of the lower plates, as "dry fit" in the whole area, make all necessary cuttings, mark the outline of each plate, in order to put them in the correct position in next step and in order to control the amount of adhesive.</p> <p>Remove the plates from the area number them and put aside in a way so you can see the numbers.</p> |  |  |
| <h1>5</h1> | <p>If substrate is contaminated such as oil, grease etc. remove contaminates from metal surfaces with solvents such as Sika® Remover-208 or water-based cleaners.</p> <p>Vacuum clean and activate the whole surface with Sika® Aktivator-205.</p> <p><b>Note:</b> Replace dirty rag frequently and dispose of it according to national regulations.</p>   |  |   |
| <h1>6</h1> | <p>Activate the top plate when they are laying in the stack. (on the pallet one after each other)</p>  |  |   |

|                  |  |   |   |
|------------------|--|---|---|
| <p><b>7</b></p>  | <p>Mixing of the adhesive Comp A+B.<br/>Stir the comp. A thoroughly before use, add comp. B and in the given ratio and stir until a homogeneous mixture is obtained.</p> <p><b>IMPORTANT:</b> In uncured state the adhesive can be removed with Sika® Remover-208 or solvents.<br/>In cured state the adhesive can only be removed mechanically</p>                                |               |   |
| <p><b>8</b></p>  | <p>Application tool for the adhesive, is a notched trowel A1 or A2 up to 450 g/m<sup>2</sup>.<br/>Apply the selected SikaForce® adhesive over the lower 3 mm steel plates in an even layer and fix the upper activated steel plates in the wet adhesive.</p> <p><b>IMPORTANT:</b> Make sure to complete the application within the working time of the corresponding adhesive.</p> |               |  |
| <p><b>9</b></p>  | <p>Place some weight on the steel plates to make sure that the steel plates are fully wetted with the adhesive or use a 50 kg carpet roll over the whole area.</p>   |               |   |
| <p><b>10</b></p> | <p><b>IMPORTANT:</b> Do not walk on it during the curing period of 12 hours.</p>   |  <p>12h</p> |   |

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

#### 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.