

# SikaFloor® Marine Thermo-Light

## Lightweight thermal insulation underlay

### Technical Product Data

Properties	Insulation layer with special filler	Top layer: Cement
Chemical base	Cement	Cement
Colour	Grey	
Cure mechanism	Hydraulic	
Density	0,55 g/cm <sup>3</sup> approx.	0,9 g/cm <sup>3</sup> approx.
Consumption (theoretical)	1 set per 45 m <sup>2</sup> /mm approx.	1 set per 22 m <sup>2</sup> /mm approx.
Consumption (practical)	1 set per 41 m <sup>2</sup> /mm approx.	1 set per 20 m <sup>2</sup> /mm approx.
Curing time (+20°C and max. 65% relative humidity)	Approx. 1 week after application of the insulation layer	
Thermal insulation values	Thermal conductivity: 0,0975 W/mK	
Shelf life (unopened and dry storage)	6 months	

Industry

#### Product description

SikaFloor® Marine Thermo-light is designed to be used as a lightweight primary deck covering with an excellent thermal insulation property.

This product is manufactured in accordance with ISO 9001 and ISO 14001 quality assurance systems.

#### Product Benefits

- Ultra lightweight
- Thermal insulation

#### Certificates/Approvals

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

#### Areas of Application

Ultra light weight filling compound can be used in camber areas or in foundations.

SikaFloor® Marine Thermo light cannot be applied directly on zinc-rich shop primed surface, aluminium or galvanised steel. In such case, contact Sika Danmark A/S.



### Cure Mechanism

At +2°C and max. 65% relative humidity, the whole construction will be ready for use approx. 1 week after application of the insulation layer. Please note that a dense deck finish material can only be applied on a completely dry structure. The drying time is dependent on the thickness of the construction.

### Method of Application

The lowest floor temperature, allowed at the time of application is +5°C.

#### Surface preparation and application

##### A) Foundation

The surface has to be clean, free from dust, grease, oils and other substances, which may impair the adhesion. The whole surface has to be primed with our water based SikaFloor® Marine Primer-C.

##### B) Insulation layer / Thermo-Light compound

The application of the Thermo-Light compound is most easily performed with a Linotol Trowel (steel board).

##### C) Top layer

SikaFloor® Marine S-110 is used as top layer. The top layer can be applied one day after the application of the insulation layer. SikaFloor® Marine Primer-C must be used between the insulation layer and the top layer. The primer has to be dry before applying the top layer. The top layer should be applied as thin as possible.

#### Mixing process

One set SikaFloor® Marine Thermo-Light consists of:

##### Insulation layer

S-110 Powder: 1 bag of 20 kg

Special filler: approx. 35 litres

The S110 powder is, mixed with approx. 8,5 – 9 litres of cold, fresh water, to produce an easy-flowing substance. The filler is added and mixed thoroughly, until a homogeneous consistency is obtained. Mix the compound in an agitator mixer (with fixed vessel) or with a power blender (power drill with appropriate blender accessories). The prepared Thermo-Light compound must be used within approx. 15 minute at +20°C

### Top layer

S-110 powder, 1 bag of 20 kg.

### Removal

Excess material can best be removed before curing with a trowel wipe. Unhardened SikaFloor® Marine Thermo Light may be removed from tools and equipment with water. Once cured, the material can only be removed mechanically.

### Important

The materials may not be exposed to moisture and freezing temperatures. The applied Thermo-Light compound and S-110 compound may not be exposed to freezing temperatures, heat, sunlight and draft, before being fully cured.

### Further information

Copies of the following publications are available on request:

- Material safety Data Sheet
- Technical Data Sheet
- SikaFloor® Marine Primer-C

### Packaging information

SikaFloor® Marine S-110

Bag	S-110 powder	20 kg
Bag	Filler	250 l.

SikaFloor® Marine Primer-C

Bucket	15 kg
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For additional technical information please contact our technical department.

### Notice:

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