

# Carrier Membrane SA

## Self-adhesive Carrier Membrane

### Product Description

Carrier Membrane SA is a multi-layer self-adhesive membrane made of polymer modified bitumen with an aluminium foil/random fibre top layer.

### Uses

- Is used as a Carrier Membrane over Decotherm Insulation in the Sika Liquid Plastics Built-Up Roof System prior to the application of the liquid applied waterproofing system
- Can be applied onto plywood or OSB boarded decks, mineral felt and associated concrete and metal details before the application of Sika Liquid Plastics Liquid Applied Roof Membranes

### Characteristics / Advantages

- Ease and speed of installation, due to self-adhesive property of back layer and its specific weight.
- Can be used as temporary waterproof layer for up to 1 week.
- Due to its high adhesion strength Carrier Membrane SA can withstand high wind loads; design load up to 2.5 kPa.
- High adhesion/bonding strength.
- Random fibre top surface provides a skid inhibiting surface.
- Can be bonded on all roof slopes and up vertical abutment details.

### Tests

#### Approvals / Standards

- CE marking according EN 13707 & EN13970:2004
- Fire behaviour according to BS 476-3 and EN1187-4 as part of the Sika Liquid Plastics Built-Up Roof System
- Quality management system EN ISO 9001

### Product Data

#### Form

#### Appearance

Surface: Aluminium foil with grey fibres

#### Colour

Top surface: Aluminium foil and random fibres.  
Plain Aluminium foil selvedge on one roll side.  
Bottom surface: White/black with release liner (PE-LD foil)

#### Packaging

Packing unit: Packaged individually in cardboard boxes  
Roll weight: Approximately 36kg in weight

#### Storage

Roofing



**Storage Conditions** Store rolls in the original packaging in a vertical position, protected against sunlight, rainfall, snow and heat. During cold weather the rolls shall be protected against frost. For correct storage, a dry, covered place is recommended at a temperature between +5°C and +40°C.

Do not stack pallets of rolls during transport or storage.

**Shelf-Life** The product must be installed within 12 months of production date.

## Technical Data

**Product Declaration** EN 13707

**Chemical Basis** Polymer modified bitumen (self adhesive) and a PE-LD release liner with composite aluminium foil as top layer with a random fibre mat.

**Length** 30 m EN 1848-2  
**Width** 1 m EN 1848-2

**Thickness** 0.8 mm EN 1849-1

**Water vapour permeability** Sd ≥ 1500 m EN 1931

**Impermeability** Pass (≥ 60kPa) EN 1928

**Tensile strength** > 150N/50mm EN 12311-1

**Elongation at break** ≥ 20 % EN 12311-1

**Static load resistance** Met.A 15kg; Met.B 20kg EN 12730

**Tear resistance (nail shank)** 70 N EN 12310-1

**Joint peel strength** 35 N/50 mm EN 12316-1

## System Information

**System Structure** Ancillary, complementary products

- Sika Liquid Plastics Liquid Applied Roof Membranes please see the relevant datasheets for further information
- Primer 600 (on all substrates, as required)
- Decotherm<sup>®</sup> Insulation boards bonded
- Decostik<sup>®</sup> SP or Decostik<sup>®</sup> Foaming Adhesive depending on requirements of vapour control and deck/substrate
- S-Vap 5000E SA

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## Application Details

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**Consumption** ~ 1.09 m<sup>2</sup> / square metre surface

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**Substrate Quality** Carrier Membrane SA is released for use on plywood/OSB decks and Decotherm<sup>®</sup> Insulation. Any other substrate type requires approval by Sika Liquid Plastics.

Generally, substrates must be smooth, even, dry and clean; further free of dust, oil and grease.

Depending on substrate type and roofing assembly (system application) Carrier Membrane SA may only be used in combination with Primer 600.

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**Decotherm<sup>®</sup> Insulation:**

Decotherm<sup>®</sup> Insulation shall be properly installed, smooth without steps at joints, clean, dry and free of oil, dust and grease.

The boards must be primed with Primer 600 at approximately 150 g/m<sup>2</sup>

**Plywood/OSB Deck:**

Substrate shall be clean and dry.

The substrate must be primed with Primer 600 at approximately 200 g/m<sup>2</sup>

**Vertical areas / upstands and flashing:**

Flashings and terminations must lap on to the vapour control layer at relevant details; therefore these must be executed with care.

Without primer: Exposed S-Vap 5000E SA, metallic substrates (free of oil and grease), plasticizer-free synthetics (except for rigid polystyrene).

With Primer 600: All other materials are to be primed with Primer 600. Concrete, masonry, raw wood products, porous materials may require 2 primer coatings, approximately 200 g/m<sup>2</sup> - 500 g/m<sup>2</sup>.

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**Substrate Preparation** Remove loose materials, clean and prime depending on substrate.

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## Application Conditions / Limits

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**Notes on Application/ Limits** Installation works shall be performed only by a QA Contractor where a Sika Liquid Plastics Product Guarantee is required.

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## Installation Instructions

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**Application Guideline** Depending on system used (mechanically fastened/adhered) refer to relevant system information.

**Application Method** Fixing Method:  
Carrier Membrane SA is adhered to the substrate. In case of a Decotherm<sup>®</sup> Insulation or plywood/OSB substrate, Primer 600 must be applied as substrate treatment, to achieve the required adhesion strength.  
Finally the selected Sika Liquid Plastics liquid applied membrane is applied to the surface of the Carrier Membrane SA.

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## Installation Procedure

Before adhering Carrier Membrane SA, the substrate must be checked (clean without any surface contaminations, free of foreign objects and or surface toppings, oil and grease free, and dry).

Carrier Membrane SA side and end laps are formed with an overlap of 75mm and 150mm respectively by self-adhesion, no additional primer needed on side laps, but end laps are to be primed. To achieve tightly sealed joints the laps must be rolled down firmly with a pressure roller (silicone roller) or by applying pressure. If seams are not immediately closed after unrolling the Carrier Membrane SA, all seams need to be properly cleaned with a proprietary cleaner. Allow the cleaners to evaporate completely.

Roll out the first run of Carrier Membrane SA in the direction of the roof falls starting from the lowest point and working up the roof slope. Following rolls must be rolled out and aligned with the selvedge which marks the overlap area at 75mm. It is good practice to form laps to shed water where possible. Adhere the first part of the self-adhesive Carrier Membrane SA and peel away the release liner sideways.

At T-joints the edge of the middle, covered sheet is to be bevelled (chamfered) at 45°. Using a silicone roller, all laps including the steps at bevels (chamfers) are to be firmly pressed together after being adhered into position. All flashings, upstands and penetrating elements must be fully adhered. Vent pipes or difficult details can be sealed with the reinforced liquid applied waterproofing membrane.

The full area of Carrier Membrane SA must be pressed into place immediately after adhering, using a water filled pressure roller or similar.

At details where Carrier Membrane SA is required to lap onto the fibre facing, the lap area is to be primed with Primer 600 and the lap is to be a minimum 150mm.

Plywood and OSB boards with joints at more than 500mm width are not primed at the joints. Leave a strip of max 100mm width free of primer each side of the joint, to facilitate smaller movements of the boards. Where the width of the plywood or OSB boards is less than 500mm, the boards are primed with Primer 600 to a full spread.

If the Carrier Membrane SA is to serve as temporary waterproofing during construction (for up to 1 week), a slope of at least 1:50 must be provided to ensure drainage. Roof drainage outlets and down pipes must be adequately sized. Ensure that the Carrier Membrane SA is in good condition, clean and dry before the liquid applied waterproofing is installed.

Any blisters in the Carrier Membrane SA caused by trapped air or outgassing can be cut and resealed by applying pressure using a 40mm silicone seam roller. To retain the temporary waterproofing characteristics of the Carrier Membrane SA, blisters should only be cut and resealed immediately prior to applying the base coat of the waterproofing system.

## Tool Cleaning

Tools and equipment must be cleaned with cleaner immediately after use.

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**Notes on Installation/  
Limits**

Installation works shall be performed only by a QA Contractor where a Sika Liquid Plastics Product Guarantee is required.

Temperature limits for the installation of the Carrier Membrane SA:

Substrate temperature: +5°C min.

Ambient temperature: +5°C min.

**Note:**

Where used on roof slopes greater than 5° all head laps shall be suitably mechanically fixed. Vertical application at upstands etc up to 250mm high above the finished roof level will not normally require additional mechanical fixing. Application greater than 250mm should be regarded as vertical work and mechanical fixing at the head or at head laps will be required.

Carrier Membrane is not suitable as permanent waterproofing. It is not designed as roofing membrane and therefore can not replace the waterproofing membrane.

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**Setting**

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**Setting Time**

Final strength is achieved after approx. 1 week, depending on the temperature and humidity.

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Roofing



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**Value Base** All technical data stated in this Product Data Sheet are based on laboratory tests. Actual measured data may vary due to circumstances beyond our control.

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**Local Restrictions** Please note that as a result of specific local regulations the performance of this product may vary from country to country. Please consult the local Product Data Sheet for the exact description of the application fields.

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**Ecology, Health and Safety Information** A Safety Data Sheet following EC-Regulation 1907/2006, Article 31 is not needed to bring the product to the market, to transport or to use it. The product does not damage the environment when used as specified.

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**REACH** **European Community Regulation on chemicals and their safe use (REACH: EC 1907/2006)**

This product is an article within the meaning of Regulation (EC) No 1907/2006 (REACH). It contains no substances which are intended to be released from the article under normal or reasonably foreseeable conditions of use. Therefore, there are no registration requirements for substances in articles within the meaning of Article 7.1 of the Regulation.

Based on our current knowledge, this product does not contain SVHC (substances of very high concern) from the candidate list published by the European Chemicals Agency in concentrations above 0.1 % (w/w).

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**Transportation Class** The product is not classified as hazardous good for transport.

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**Disposal** Disposal must be according to local regulations. Please contact your local Sika sales organisation for more information.

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**Disclaimer** The information, and, in particular, the recommendations relating to the application and end- use of Sika products, 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. In practice, the differences in materials, substrates and actual site conditions are such that no warranty in respect of merchantability or of fitness for a particular purpose, nor any liability arising out of any legal relationship whatsoever, can be inferred either from this information, or from any written recommendations, or from any other advice offered. The user of the product must test the product's suitability for the intended application and purpose. Sika reserves the right to change the properties of its products. The proprietary rights of third parties must be observed. 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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**Specification assistance** NBS is the industry standard specification system, which allows architects, specifiers and engineers to insert clauses into specifications by manufacturer and product, making the process quicker and more efficient. We are members of NBS Plus and therefore detailed up-to-date product information is readily available to create accurate specifications.



**Roofing**  
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