Sika® Membrane -2000

Polymer based, elastic waterproofing membrane

PRODUCT DESCRIPTION

Sika® Membrane 2000 is a single component, liquid applied membrane based on advanced polymers. It is water based, free of solvents and plasticisers. Sika® Membrane 2000 is flexible and elastomeric, and displays outstanding waterproofing features with low water vapour transmission properties and the ability to withstand permanently wet conditions without re-emulsification of the cured membrane. Suitable for a wide range of waterproofing and vapour proofing applications in under ground, external and internal areas.

It is designed for waterproofing wet areas, showers, laundries, roofs, terraces, balconies, decks, concrete slabs and general structures that will be covered over with toppings, tile beds or overlay finishes.

USES

- Under screeds (or above screeds) to provide a damp proof membrane.
- As part of a waterproofing system in basements applications.
- Can be used under render, plaster or tiles as a water barrier or vapour barrier.
- As waterproof membrane on inverted roofs, roof gardens, polystyrene sheet insulation roofs.
- As secondary protection under tiles in wet areas e.g. bathrooms, food processing areas, balconies etc.
- Suitable in immersed applications for water storage. (Recommended to be finished over with render finish)
- The membrane protects concrete from silage attack and general low pH solution.
- As gas barrier to minimize methane transmission and other vapours.
CHARACTERISTICS / ADVANTAGES

- Good bond to many substrates including damp substrates.
- Quick drying – typically touch dry in one hour.
- Can be applied onto alkaline substrates.
- Single pack system, easy to use.
- Non-toxic, non hazardous, solvent and plasticiser free.
- Resistant to silage acids.
- Non-staining and stain blocking.
- Tough, highly flexible and elastic with excellent crack bridging performance.
- Will not re-emulsify in wet conditions.

PRODUCT DATA

<table>
<thead>
<tr>
<th>FORM</th>
<th>COLOURS</th>
</tr>
</thead>
<tbody>
<tr>
<td>Black</td>
<td></td>
</tr>
</tbody>
</table>

| PACKAGING |
| 25 kg per pail |

| STORAGE |
| STORAGE CONDITIONS / SHELF-LIFE |
| 12 months from date of production if stored properly in undamaged and unopened original sealed packaging in cool dry conditions. Protect from direct sunlight and frost. |

TECHNICAL DATA

| CHEMICAL BASE |
| Styrene-butadiene Copolymer |

| DENSITY |
| Approx. 1.25 kg/L |

| VOC DATA |
| VOC content (ready to use) not exceeding 250 gm/litre “Type of Regulated Paint under the Air Pollution Control (Volatile Organic Compounds) Regulation of Hong Kong : [Roof Coatings (non-exposed)]” |

| MECHANICAL / PHYSICAL PROPERTIES |
| TENSILE STRENGTH |
| (According to AS 1142) |
| 2.8 MPa |

| ELONGATION |
| (According to AS 1142) |
| 350% |

| SHORE A HARDNESS |
| (According to ASTM D2240) |
| 70 |
### ADHESIVE TO CONCRETE (AFTER 7 DAYS)
1.3 MPa (at 1mm dry film thickness)

### RESISTANCE TO WATER PENETRATION (POSITIVE PRESSURE)
0.3 MPa

### VAPOUR TRANSMISSION
< 4g/24h/m²

### CRACK BRIDGING PROPERTIES
>1 mm dried film

### WATER ABSORPTION
1.00%

### BLEACH IMMERSION – 56 DAYS
(According to AS 4858)
Pass

### DETERGENT IMMERSION – 56 DAYS
(According to AS 4858)
Pass

### HEAT AGEING
(According to AS 4858)
Pass

## SYSTEM INFORMATION

### APPLICATION DETAILS
### CONSUMPTION / COVERAGE

A minimum dft of 0.6 mm is required to provide a vapour barrier.
(This is equivalent to approximately 1.2kg/m²)

Approx. 1mm dft waterproofing membrane =
2 coats @ 1kg/m²/coat (standard)

Approx. 2mm dft waterproofing membrane =
2 coats @ 2kg/m²/coat (critical)
SURFACE QUALITY
Sika® Membrane 2000 can be applied over:
- Concrete, render and masonry
- Fibre cement sheeting, plasterboard and structural sheeting
- Wet area timber sheeting and external grade plywood
- Aerated concrete panels and blocks

It is recommended to check adhesion to the substrates by testing on a sample area before starting any job.

SURFACE PREPARATION
All substrates must be structurally sound, stable and clean (compressive strength : minimum 25 N/mm² and cohesive strength : minimum 1.5 N/mm²). Smooth shiny surfaces are to be roughened or etched. Rough surfaces are to be evened or filled first. All surfaces are to be free of sharp protruding surfaces, loose material, de-bonded coatings, curing membranes, release agents, wax residues, laitance, algae and moss, oils, etc.

Structurally unsound layers and surface contaminants are to be mechanically removed by abrasive blasting, blast tracking, grinding or equivalent methods.

SUBSTRATE TEMPERATURE
+7°C min.

AMBIENT TEMPERATURE
+7°C min.

DEW POINT
Beware of condensation!
**APPLICATION INSTRUCTIONS**

**PRIMING**

On very absorbent surfaces, a primer coat diluted with 10% water may be applied at 0.3kg/m². Care should be taken to ensure the required membrane final dry film thickness is achieved.

**MIXING**

Prior to application, stir Sika® Membrane 2000 thoroughly for 3 minutes in order to achieve a homogeneous mixture.

**APPLICATION METHOD / TOOLS**

Sika® Membrane 2000 can be applied by brush, roller or airless spray directly onto the clean substrate.

Apply subsequent coats at different directions to the previous coat coverage is dependent upon surface condition and will vary according to surface’s evenness and porosity.

**WAITING TIME / OVERCOATING**

Before applying each coat, the previous coat must be touch dry (approx. 4 hrs.) Subsequent coats should be applied within a max. period of 24 hrs.

**CLEANING OF TOOLS**

Clean all tools and application equipment with clean water immediately after use. Hardened / cured material can only be removed mechanically.

**NOTES ON APPLICATION / LIMITATIONS**

- Do not apply at ambient and substrate temperatures less than 7°C.
- Do not thin with solvents.
- In a liquid form, the product should not be washed into drains and waterways.
- Not to be used as trafficable surface.
- Do not apply to areas when rain is imminent.
- Not to be used in areas where solvent or petroleum based products may be spilled.
- Allow 5 days @25°C, RH75% drying period after final application if treated area to be under flooding test. For lower temperature and higher humidity, the drying time takes longer.
- For substrate not fully dry, a moisture barrier primer should be applied prior to the application of Sika® Membrane 2000.
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.

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.

HEALTH AND SAFETY INFORMATION

For information and advice on the safe handling, storage and disposal of chemical products, users shall refer to the most recent Material Safety Data Sheet containing physical, ecological, toxicological and other safety-related data.

LEGAL NOTES

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. It may be necessary to adapt the above disclaimer to specific local laws and regulations. Any changes to this disclaimer may only be implemented with permission of Sika® Corporate Legal in Baar.

FOR MORE PRODUCT NAME® INFORMATION:

SIKA HONGKONG LTD
1507-12, 15/F, Block A,
New Trade Plaza,
6 On Ping Street,
Shatin, N.T. Hong Kong
www.sika.com.hk

Contact Details
Phone: + 852 2686 8108
Fax: +852 2645 3671
Mail:marketing@hk.sika.com

Product Data Sheet
Sika® Membrane - 2000
Mar. 2018, VERSION 2

BUILDING TRUST