



# Sika<sup>®</sup> Liquid Damp-proof Membrane

## Epoxy Resin Liquid Membrane

### Technical Data Sheet

#### DESCRIPTION

**Sika Liquid Damp-proof Membrane** is a two component, solvent free, low odour, cold cured epoxy based liquid damp-proofing membrane.

#### USES

Damp-proof membrane.

- \* Below and above cementitious screeds.
- \* Concrete floors.

#### ADVANTAGES

- \* Colour coded components to ensure correct mixing.
- \* Excellent adhesion even in damp conditions.
- \* Easy to apply.
- \* Moisture tolerant.
- \* Workable at low temperatures.
- \* Low odour.
- \* Solvent free.
- \* Applied by brush or roller.

#### Technical Data (typical)

<b>Colour:</b>	Grey (mixed) Base - white Hardener - black
<b>Density:</b>	1.4 kg/litre
<b>Application temperatures:</b>	+5°C min - +30°C max (substrate and ambient)
<b>Substrate M.C. &amp; RH:</b>	≤4% by Wt or ≤75% RH
<b>Application thickness:</b>	0.25 mm minimum/coat 0.5 mm maximum/coat 2 coats required
<b>Water vapour permeability:</b>	1.89 g/m <sup>2</sup> /day (BBA Test Report No 993)
<b>Methane Diffusion:</b>	<1 x 10 <sup>-9</sup> cm <sup>2</sup> s <sup>-1</sup> (@ 627 microns) (Taywood Certificate No 2160)
<b>Water vapour resistance:</b>	108.6 MNs/g
<b>Bond strength:</b>	Concrete: typically 2.0 - 3.0 N/mm <sup>2</sup> (concrete failure) Steel: typically 18 N/mm <sup>2</sup> (epoxy failure)
<b>Shrinkage:</b>	Negligible

#### Pot life/open time:

Temperature	Pot life (min)	Open time (hrs)
0°C	-	-
5°C	120	>3 hrs
10°C	60	>3 hrs
20°C	25	3
30°C	15	1

All above values are approximate.

## SURFACE PREPARATION

### *Cementitious Substrates*

All surfaces must be free from dirt and dust with lime efflorescence, salts and paint remnants removed by light blasting, steam-cleaning or the use of suitable detergents. Any sharp edges or peaks should be eliminated with voids or hollows made good accordingly.

Resulting substrates must be sound, fine gripping and surface dry.

Screed or concrete must be at least 3-6 weeks old.

## MIXING

Stir component A prior to mixing (resin). The whole of component A (resin) should be mixed with the whole of component B (hardener) for a minimum of 2 minutes using a slow speed electric stirrer (300-600 rpm) and suitable spiral or paddle mixer until a uniform mix and colour is achieved.

## APPLICATION

Prior to application, confirm substrate moisture content and RH. If >4% by wt or >75% RH. **Sikafloor® EpoCem®** may be applied as a D.P.M. system

Apply directly to the prepared substrate, the first coat by brush or roller. Once the first coat has dried apply the second coat. If the surface contains blow holes or pores, brush the first coat well into the substrate before application of the second coat. Inspect the first coat and prefill blow holes. Then apply second coat to provide a pore free surface.

If using below a bonded cementitious screed, the screed should be applied to the second coat of **Sika Liquid Damp-proof Membrane** whilst still tacky (up to 3 hours).

## IMPORTANT CONSIDERATIONS

- \* Do not apply **Sika Liquid Damp-proof Membrane** on substrates in which significant vapour pressure may occur.
- \* At higher temperatures pot life will be shortened.
- \* At lower temperatures the material will become more difficult to apply and take longer to harden.
- \* Wear suitable protective clothing, gloves and eye protection.
- \* Ensure final surface is pinhole free to maintain damp-proof membrane performance.
- \* Always ensure good ventilation when using in a confined space.
- \* **Thinner C** is flammable. NO NAKED FLAMES
- \* Do not mix additional fillers and solvents.
- \* Relative humidity should be determined by the method stated in BS 8203 Appendix A.

## CLEANING

All tools should be cleaned with **Thinner C** immediately after use. Hardened material must be removed mechanically.

## PACKAGING

Refer to latest price list.

## CONSUMPTION

0.35 kg/m<sup>2</sup> @ 0.25 mm thickness  
0.7 kg/m<sup>2</sup> @ 0.5 mm thickness

Approximately 14.0 m<sup>2</sup> per 5 kg unit @ 0.25 mm.

Excluding allowances for loss wastage surface profile and porosity.

## STORAGE AND SHELF LIFE

Minimum 12 months in sealed containers stored in dry warehouse conditions (+5°C - +25°C).

### Handling Precautions

Sika products are generally harmless provided that certain precautions normally taken when handling chemicals are observed. The materials must not, for instance, be allowed to come in contact with foodstuffs or food utensils and measures should also be taken to prevent the uncured materials from coming in contact with the skin, since people with particularly sensitive skin may be affected. The use of protective clothing, goggles, barrier creams and rubber gloves is required. The skin should be thoroughly cleaned at the end of each working period either by washing with soap and warm water or by using a resin-removing cream - the use of powerful solvents is to be avoided. Disposable paper towels - not cloth towels - should be used to dry the skin. Adequate ventilation of the working area is recommended. In case of accidental eye or mouth contact, flush with water - consult a doctor immediately. Health and Safety information on Sika Products is available and we strongly advise that this is read prior to their use. Sika products are for professional use and should be stored in sealed containers away from the reach of children.

### Important Note

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 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 proprietary rights of third parties must be observed. All orders are accepted subject to our current terms of sale and delivery. Users should always refer to the most recent issue of the Technical Data Sheet for the product concerned, copies of which will be supplied on request.

Please consult our Technical Sales Department for further information

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