

PRODUCT DATA SHEET

SikaProof® SK3000

HIGH PERFORMANCE, PRE-APPLIED HDPE WATERPROOFING MEMBRANE
FOR SUB-STRUCTURES AND CONFINED SITES



DESCRIPTION

SikaProof® SK3000 membranes are sheets comprising a thick HDPE film, an aggressive pressure sensitive adhesive and a weather resistant protective coating. It is a pre-applied membrane with a special adhesive to allow concrete to bond to it, when concrete is poured against the membrane. This unique bond allows the membrane to achieve a positive side waterproofing barrier in all situations at site.

USES

SikaProof® SK3000 is used to waterproof areas such as:

- Substructure Basement Slabs and Walls and
- In any confined space underground structures where there are limited working space.

CHARACTERISTICS / ADVANTAGES

- Thick HDPE provides high dimensional stability, puncture & tear strength.
- Unique pressure sensitive adhesive technology ensures continuous seal.
- Factory-controlled thickness.
- Chemical resistance provides effective protection against any external aggressive element.
- Accommodates settlement & shrinkage movement.
- Forms a unique integral seal to concrete poured against it, thus preventing lateral water migration and is unaffected by ground settlement beneath slabs.
- Provides a barrier to water, moisture and gas - physically isolates the structure from the surrounding ground.
- Self protecting - can be trafficked immediately after application and ready for immediate placing of reinforcement.
- Adhesion of membrane to concrete is unaffected by rain or wet conditions.
- Chemically-resistant property means it is effective in all types of soils and waters and protects structure from salt or sulphate attack.

APPROVALS / STANDARDS

Certified Green Label by Singapore Green Building Council, 'Leader'

PRODUCT INFORMATION

Packaging	30m x 1.2m x 1.2mm per roll
Shelf Life	24 months from the date of production
Storage Conditions	Store in cool, dry building to prevent physical damage. Avoid storing the membrane under direct sunlight for prolong period.

TECHNICAL INFORMATION

Resistance to Static Puncture	1109 N	(ASTM E154/154M)
Tensile Strength	32.65 N/mm ²	(Logitudinal Direction) (SS 374)
	30.19 N/mm ²	(Transverse Direction)
Elongation	1080 %	
	1250 %	(Longitudinal Direction) (SS 374)
	1080 %	(Transverse Direction)
Adhesion in Peel	1109 N/m	(Peel Adhesion to Concrete) (ASTM D903)
Water Tightness	No Leakage	(Resistance to Hydrostatic Pressure @7bar) (DIN 16726)

BASIS OF PRODUCT DATA

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.

LIMITATIONS

EXPOSURE AND PROTECTION

Following the application and inspection, care should be taken to prevent damage by following trades. Any punctured or damaged areas should be cleaned and patched using SikaProof® SK3000 or with minimum 50mm laps all around.

For detailing with SikaProof® SK3000, a liquid applied membrane may also be used in conjunction with installation of membranes where required.

Tape adhesive must be completely dry and free of moisture for good adhesion.

The use of a heavy roller for overlapping application is important to ensure a continuous watertight bond without creases.

ECOLOGY, HEALTH AND SAFETY

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

APPLICATION METHOD / TOOLS

SUBSTRATE PREPARATION

All Surfaces -

It is essential to create a sound and solid substrate to eliminate movement during the concrete pour. **Substrates must be regular, flat and smooth with no gaps or voids greater than 12mm.** Grout around all penetrations such as utility conduits, etc. for stability.

APPLICATION

SikaProof® SK3000 can be applied at temperatures of -4°C or above. During cold or damp conditions, the seldedge and tape adhesive can be gently warmed us-

ing a hot air gun or similar to remove moisture or condensation and improve initial adhesion.

Horizontal Substrates

Place the membrane HDPE film side to the substrate with printed coated side up facing towards the concrete pour. End laps should be staggered to avoid a build up of layers. Leave plastic release liner in position until overlap procedure is completed. Accurately position succeeding sheets to overlap the previous sheet 75mm along the marked selvedge. Ensure the underside of the succeeding sheet is clean, dry and free from contamination before attempting to overlap. Peel back the plastic release liner from between the overlaps as the two layers are bonded together.

Ensure a continuous bond is achieved without creases and roll firmly with a heavy roller. Completely remove the plastic liner to expose the protective coating. Any initial tack will quickly disappear.

Vertical Substrates

Mechanically fasten the membrane vertically using fixings (i.e. fasteners) appropriate to the substrate with the printed coated side facing towards the concrete pour. The membrane may be installed in any convenient length. Secure the top of the membrane using a batten such as a termination bar or fixing 50mm below the top edge. Fixings can be made through the selvedge so that the membrane lays flat and allows firmly-rolled overlaps. Remove the plastic release liner immediately. Any additional fixings must be covered with a patch of SikaProof® SK3000. Ensure the underside of the succeeding sheet is clean, dry and free from contamination before attempting to overlap. Press firmly with a hard roller to ensure a watertight seal.

Roll Ends and Cut Edges -

Overlap all roll ends and cut edges by a minimum 75mm and ensure the area is clean and free from contamination, wiping with a damp cloth if necessary. Allow to dry and apply SikaProof® SK3000 centered over the lap and roll firmly. Immediately remove printed plastic release liner from the tape.

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.

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.

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