

PRODUCT DATA SHEET

Sikaplan®-974

(formerly MSeal 974)

POLYPROPYLENE DRAIN BOARD SYSTEM

PRODUCT DESCRIPTION

Sikaplan®-974 is part of a series of polypropylene drain board systems that significantly reduce the amount of water coming into contact with the waterproofing membranes, relieve hydrostatic pressure, and extend the life of the waterproofing system.

Sikaplan®-974 is a cost-effective, high-strength polymeric core and non-woven geotextile filter fabric for vertical installations at shallower depths where moderate compressive strengths and flow capacity are adequate.

USES

- Retaining walls
- Tunnel construction
- Bridge abutments
- Vertical substrates

PRODUCT INFORMATION

Chemical Base	Material (filter fabric): Nonwoven Polypropylene	
Packaging	4 by 50 ft (1.2 by 15.2 m) rolls	
Shelf Life		
Storage Conditions		
Color	Black	
Thickness	0.40 in (10 mm)	(ASTM D 1777)
Weight	Roll weight: 56 lbs (25 kg)	

Core weight:	2.45 oz/ft ² (750 g/m ²)	(ASTM D 3776)
Weight typical:	4.0 oz/yd ² (135 g/m ²)	(ASTM D 5261)

TECHNICAL INFORMATION

Resistance to Static Puncture	Puncture strength 65 lbs (0.29 N)	(ASTM D 4833)
Compression resistance	11,000 psf (550 kN/m ²)	(ASTM D 1621, modified)
Tensile Strength	Grap tensile 110 lbs (0.49 N)	(ASTM D 4632)
Elongation	50%	(ASTM D 4632)
Burst Strength	Mullen burst 215 psi (1,482 kPa)	(ASTM D 3786)
Tear Strength	Trapezoidal tear 50 lbs (0.22 N)	(ASTM D 4533)
Water permeability		
Flow Rate	140 gpm/ft ² (5690 L/min/m ²)	(ASTM D 4491)
	Composite System	
	Water-flow rate (V) 18 gal/min/ft (223 L/min/m)	(ASTM D 4716)
Opening size	Apparent opening size 70 sieve size (0.21 mm)	(ASTM D 4751)
Permeability to Water Vapor	2.0 sec ⁻¹ (2.0 sec ⁻¹)	(ASTM D 4491)
UV Exposure	70% (500 hrs)	(ASTM D 4355)

APPLICATION INFORMATION

Coverage	200 ft ² (18 m ²) per 4 by 50 ft (1.2 by 15.2 m) roll
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BASIS OF PRODUCT DATA

Results may differ based upon statistical variations depending upon mixing methods and equipment, temperature, application methods, test methods, actual site conditions and curing conditions.

LIMITATIONS

For Best Performance

- Do not expose drain panel rolls to direct sunlight for prolonged periods.
- Ensure any exposed core area is covered with filter fabric.
- Repair tears or holes in the fabric by placing new cloth over damaged areas.
- In horizontal applications where reinforcing steel is to be placed, spread foot type rebar chairs or wide plastic bar holders are recommended. Repair any damage caused during steel installation.
- When the panels are cut around termination protrusions or planter installations, be sure to cover all cut areas with extra pieces of filter fabric to prevent intrusion. Cut sections generally require a 4–6" (100–150 mm) overlap.
- Use scissors or utility knives to cut drain panels. For cutting entire rolls, a cut-off saw with a carbide blade is recommended.
- Protect the installation's finished surface from damage by rocks or debris during construction and backfilling.
- Backfill should be placed as soon as possible after the drain panel installation.
- Sikaplan®-974 is made from highly chemical-resistant polypropylene and are suitable for use in a variety of applications. For specific chemical environments, contact Sika Technical Service to determine suitability.
- Proper application is the responsibility of the user. Field visits by Sika personnel are for the purpose of making technical recommendations only and not to supervise or provide quality control on the job site.

ENVIRONMENTAL, HEALTH AND SAFETY

For further information and advice regarding transportation, handling, storage and disposal of chemical products, user should refer to the actual Safety Data Sheets containing physical, environmental, toxicological and other safety related data. User must read the current actual Safety Data Sheets before using any products. In case of an emergency, call CHEMTREC at 1-800-424-9300, International 703-527-3887.

APPLICATION INSTRUCTIONS

SUBSTRATE PREPARATION

Surfaces to receive drain board should be relatively smooth and free of sharp or protruding objects.

APPLICATION

Installation on Vertical Surfaces

1. Install Sikaplan®-974 with the filter fabric side facing away from the wall so that backfill will be placed against the fabric. Cut panels to appropriate size using utility knife or scissors.
2. To install all panels, use a suitable bonding system that is compatible with the substrate. Typical installation of Sikaplan®-974 over a cured waterproof membrane requires using an adhesive, two-sided mastic tape or a suitable Sika sealant to hold the board in place. Backfilling at the end of installation completes the permanent placement.
3. To install panels longitudinally, start the first lift of drain panel at the bottom of the application area to ensure sound drainage. Install the next lift of drain panel by overlapping the panel's flat tab section onto the previously installed drain board. Complete the attachment by pulling the excess filter fabric down over the previously installed panel. This installation method will automatically create a step-down (shingle fashion) lap to properly drain water. Enclose all ends of the drainage panel with the attached fabric. Wrap the fabric over top drain board to prevent earth infiltration. The bottom of the panel should be placed behind the discharge pipe.
4. To install panels vertically, follow the same procedure for overlapping the panels. Work from one side of the application area to the other, keeping the fabric side out and the lap consistent.
5. Ensure that fabric covers all exposed core edges.
6. Place backfill as soon as possible after installation. Take care not to damage the drain panels during backfilling.

LEGAL DISCLAIMER

- KEEP CONTAINER TIGHTLY CLOSED
- KEEP OUT OF REACH OF CHILDREN
- NOT FOR INTERNAL CONSUMPTION
- FOR INDUSTRIAL USE ONLY
- FOR PROFESSIONAL USE ONLY

Prior to each use of any product of Sika Corporation, its subsidiaries or affiliates ("SIKA"), the user must always read and follow the warnings and instructions on the product's most current product label, Product Data Sheet and Safety Data Sheet which are available at usa.sika.com or by calling SIKA's Technical Service Department at 1-800-933-7452. Nothing contained in any SIKA literature or materials relieves the user of the obligation to read and follow the warnings and instructions for each SIKA product as set forth in the current product label, Product Data Sheet and Safety Data Sheet prior to use of the SIKA product.

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Sika Corporation

201 Polito Avenue
Lyndhurst, NJ 07071
Phone: +1-800-933-7452
Fax: +1-201-933-6225
usa.sika.com



Product Data Sheet

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