

## PRODUCT DATA SHEET

# Sikaplan®-975

(formerly MSeal 975)

### POLYPROPYLENE DRAIN BOARD SYSTEM

#### PRODUCT DESCRIPTION

Sikaplan®-975 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®-975 offers vertical drain solutions, incorporating a plastic sheet adhered to the back surface of the drain core. This offers a protective layer that prevents die cutting of the waterproofing membrane.

#### USES

- Foundation walls
- Plaza decks
- Planter boxes
- Lagging walls
- Below grade with Sikalastic® HLM 5000
- Vertical and horizontal substrates

#### CHARACTERISTICS / ADVANTAGES

- High-impact polypropylene core provides the toughest drain system available
- Dimpled core construction helps produce high water-flow rates
- Water-flow control relieves hydrostatic pressure on buildings and extends the life of waterproofing systems

#### PRODUCT INFORMATION

<b>Chemical Base</b>	Material (filter fabric): Nonwoven Polypropylene	
<b>Packaging</b>	4 by 50 ft (1.2 by 15.2 m) rolls	
<b>Shelf Life</b>		
<b>Storage Conditions</b>		
<b>Color</b>	Black	
<b>Thickness</b>	0.40 in (10 mm)	(ASTM D 1777)
<b>Weight</b>	Roll Weight: 64 lbs (29 kg) Core weight:	

2.75 oz/ft <sup>2</sup> (830 g/m <sup>2</sup> )	(ASTM D 3776)
Weight typical:	
4.0 oz/yd <sup>2</sup> (135 g/m <sup>2</sup> )	(ASTM D 5261)

## TECHNICAL INFORMATION

<b>Resistance to Static Puncture</b>	Puncture strength 65 lbs (0.29 N)	(ASTM D 4833)
<b>Compression resistance</b>	15,100 psf (723 kN/m <sup>2</sup> )	(ASTM D 1621, modified)
<b>Tensile Strength</b>	Grap tensile 110 lbs (0.49 N)	(ASTM D 4632)
<b>Elongation</b>	50%	(ASTM D 4632)
<b>Burst Strength</b>	Mullen burst 215 psi (1,482 kPa)	(ASTM D 3786)
<b>Tear Strength</b>	Trapezoidal tear 50 lbs (0.22 N)	(ASTM D 4533)
<b>Flow Rate</b>	140 gpm/ft <sup>2</sup> (5690 L/min/m <sup>2</sup> )	(ASTM D 4491)
	<b>Composite System</b>	
	Water-flow rate (V) 18 gal/min/ft (223 L/min/m)	(ASTM D 4716)
	Water-flow rate (H) 3.2 gal/min/ft (40 L/min/m)	(ASTM D 4716)
<b>Opening size</b>	Apparent opening size 70 sieve size (0.21 mm)	(ASTM D 4751)
<b>Permeability to Water Vapor</b>	2.0 sec <sup>-1</sup> (2.0 sec <sup>-1</sup> )	(ASTM D 4491)
<b>UV Exposure</b>	70% (500 hrs)	(ASTM D 4355)

## APPLICATION INFORMATION

<b>Coverage</b>	200 ft <sup>2</sup> (18 m <sup>2</sup> ) 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®-975 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®-975 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®-975 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.

#### Installation on Horizontal Surfaces

1. The substrate below the Sikaplan®-975 panels should

- have a minimum 2% slope.
2. Install drain panel with the filter fabric side up.
3. Adhere the drain panel at 10 ft (3.3 m) centers using two-sided mastic tape when necessary.
4. Overlap the sheets using the flat tab sections of each. Overlap the fabric onto the preceding panel and adhere the overlapped fabric with adhesive tape if necessary to prevent soil, sand, and concrete from entering the panel during construction.
5. Start the installation at the lowest point to ensure sound drainage and to create a shingling effect in the installation.
6. Overlapping of Sikaplan®-975 panels in horizontal installations must take slope and water flow into account. Drain panels must be shingled in the direction of the water flow using sound waterproofing practices.
7. Ensure that fabric covers all exposed core edges.
8. 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

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