



## Dimple membranes for basement waterproofing.

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### IS IT:

*Product*

*Technology*

*Equipment*

### APPLICABLE FOR:

*Restoration*

*Rehabilitation*

*New Construction*

### APPLICABLE ON:

*1. Foundations and underground structures*

*2. Vertical structures*

*3. Horizontal structures and vertical connections*

*4. Roof and terraces*

*5. Façade and building envelope*

*6. Finishes and completion elements*

*7. Integrated services*

*8. General strategies for building recovery*

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***Related companies: Superseal dimpled membrane.***

## DESCRIPTION

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SUPERSEAL Dimple Membrane eliminates 100% hydrostatic/headwater pressure off a poured concrete foundation wall. With a compressive strength of 5200 pounds per square foot all the pressure is placed on the membrane and off the poured wall. Exterior water filters through the soil and into the perimeter drainage system.

## WHY TO USE

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SUPERSEAL Dimpled Membrane is an extremely durable black dimpled sheet made from High Density Polyethylene (HDPE) plastic. It is mechanically fastened to a foundation wall at final grade height. It can be installed on any type of foundation on the exterior or interior. Poured concrete walls, block walls, brick, or stone walls, insulated concrete form walls, and more. All rolls are 65.5' long and are available in 10 different roll heights ranging from 3'6" to 13'2". The dimples in the membrane are 5/16" in height, which create a 5/16" drainage space or airgap between the wall and the back of the membrane. This prevents any soil and/or backfill material from touching the wall itself. The backfill rests on the outside of the membrane and water cannot penetrate through the plastic. Surface water migrates down through the backfill to the drain stone and into the drainpipe at the bottom, near the footing. In the event any water does enter the drainage space, it will fall by gravity to the bottom and migrate into the drainage system at the footing. It is easy to install, and very cost effective compared to other products and systems. It can be installed with or without additional coatings, in any weather condition, and backfilled immediately.

## HOW TO USE AND APPLY

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- Brick Foundations
- Interior basement walls
- Subfloor applications
- Under floor slabs
- Works with radon gas ventilation systems
- Under most types of flooring

*Technical procedure:*

### EXTERIOR APPLICATION:

- Install to final grade height.
- Incorporate into the drain system at the footing.

- It is better if the membrane is installed prior to installing perforated pipe and the drain stone.
- Ensure you have enough membrane, plugs, and molding strips to complete the area that you are protecting.
- Follow the Installation instructions.

Addition coating(s) on the wall is not required but provides additional protection. Consult with local building official if one is involved, as they determine what they will accept. This can vary from one city to the next.

## PREPARATION

- Ensure the site is safe and accessible.
- Make sure that you have all the tools and material necessary to complete the job.
- Determine the roll heights required and measure the length needed.
- Determine the final grade height and snap chalk lines. The product should not be exposed to UV for long periods of time.
- Clean the footing off and repair any imperfections.

Use a suitable mastic or tar for patching tie holes, honeycombing, protrusions, etc. This can be found in the roofing or foundation section at most local lumber yards and Hardware stores. (Also recognized as foundation mastic, roof patch, or plastic cement). The most cost effective is tar based and black in color. It is available in 1 and 5-gallon pails and also in caulking gun tubes. SUPERSEAL is chemical resistant and compatible with all these types of products.

## TECHNICAL CHARACTERISTICS

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High-density polyethylene (HDPE) drainage membrane is used for waterproofing of foundations in drainage systems as a moisture barrier, as well as waterproof protection of underground elements with ventilation function, prevents penetration of plant roots and is easy to lay.

Vertically laid pitted sheets, due to their very high resistance to pressure, retain their waterproofing properties much better when pressed into the soil. Layed horizontally, these sheets have a greater ability to withstand loads and maintain the pits themselves without deformation.

Main material characteristics: very pressure resistant; shock and crack resistant; very resistant to cracks; wear resistant; no harmful toxicological effects; does not affect

drinking water; impact resistant, elastic; resistant to chemicals; resistant to plant roots; resistant to mold and bacteria.

## RECOMMENDATIONS AND OTHER INFORMATION

The membrane must be installed tight to foundation wall penetrations and sealed at the entire intersection between the membrane and the penetrating item.

SUPERSEAL foundation Membrane is safe to use. It does not give off any VOC's making it 100% environmentally friendly. No Wildlife, water sources or soils will be affected by SUPERSEAL.

## EXAMPLES

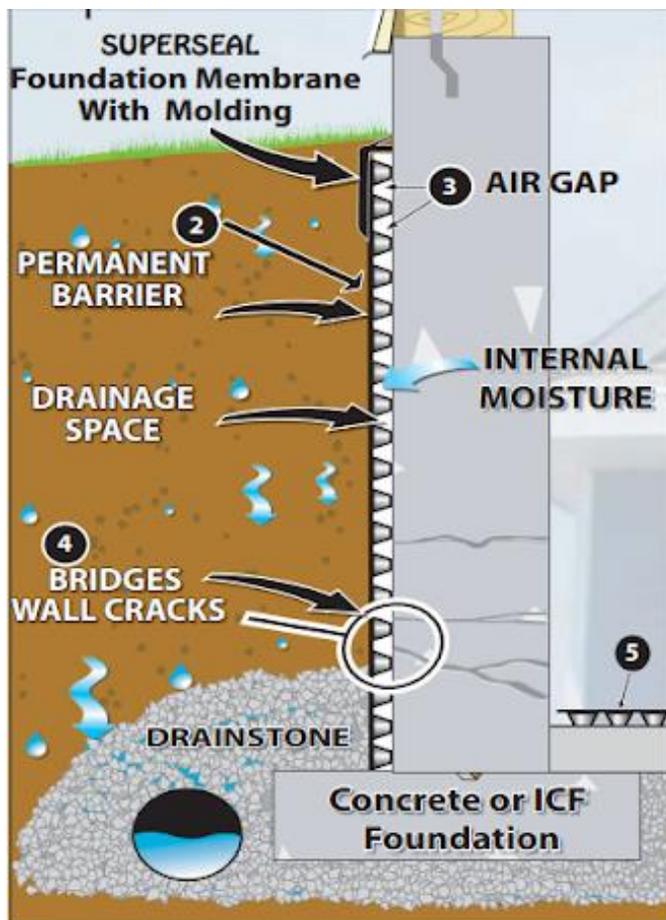


Fig.1: Installation procedure. © <https://www.superseal.ca/>

## REFERENCES / SOURCES AND LITERATURE

<https://www.superseal.ca/foundation-membranes/>

<https://www.waterproofmag.com/2008/01/why-dimple-membranes-make-sense/>

<https://www.dorken.com/en/our-products/products/residential/delta-ms.php>

## WEBSITE OF THE COMPANY

<https://www.superseal.ca>



## IMAGES AND CAPTIONS

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Fig.2: Photo of the product. © <https://www.superseal.ca/>



Fig.3: Installation examples. © <https://www.superseal.ca/foundation-membranes/>