

DELTA® protects property. Saves energy. Creates comfort.

## TECHNICAL DATA SHEET

### DELTA®-MS

#### Foundation Dampproofing and Wall Waterproofing.

#### MATERIAL

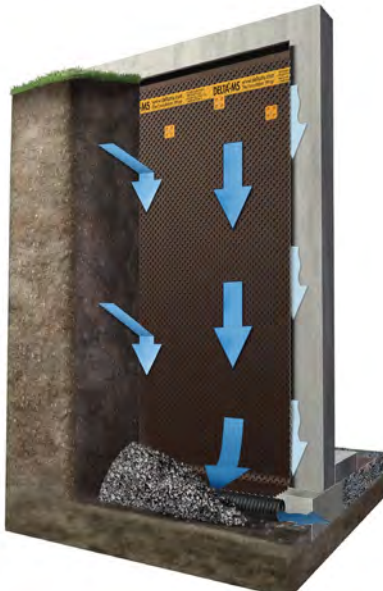
DELTA®-MS is manufactured with an exclusive co-extrusion process, utilizing 60% recycled high density polyethylene (HDPE) from municipal recycling programs in the middle, and two thin layers of a special virgin HDPE on the outside. The encapsulation of the recycled HDPE ensures that DELTA®-MS is protected against degradation caused by oxidation and environmental influences, like acidic soils or alkalinity (concrete). DELTA®-MS, equipped with highly effective additive packages, provides high compressive strength, impact resistance, and chemical and environmental stress crack resistance.

#### PROPERTIES

DELTA®-MS is a dimpled membrane, impermeable to water and water vapor. The dimple pattern creates an air-gap between the membrane and the foundation wall. This allows any incidental water getting past the dimpled membrane to flow freely to the perimeter footing drain. The air-gap provides a safe separation and full capillary break between the foundation wall and any ground moisture. DELTA®-MS bridges large cracks and imperfections in foundation walls. It can also be utilized as an effective protection layer over spray or sheet applied waterproofing systems. DELTA®-MS is available in many sizes to cover any foundation with a minimum of overlaps and seams. The high compressive strength of the membrane ensures sustainable protection of foundation walls up to 12 ft below grade.

#### APPLICATION

DELTA®-MS is installed by unrolling the membrane against the foundation wall. DELTA® Accessories allow for quick and effective fastening of the membrane. The top edge of the product is sealed and protected against intrusion of soil particles and surface water with sealant and specifically designed profiles and fasteners.



## Technical Data

Product name	DELTA®-MS	
Color	chocolate brown	
Material	Recycled high-density polyethylene, encapsulated between two layers of special virgin HDPE	
Dimple height	5/16" (8 mm)	ASTM D6364-06
Compressive strength	approx. 5,200 psf (250 kN/m²)	ASTM D6364-06
Fire resistance	B2	DIN 4102
	B1 available upon request	
Flow rate / unit width @ hydr. grad. 1; 100 kPa	10.6 gal/min/ft (132 l/min/m)	ASTM D4716-08
Flow rate / unit width @ hydr. grad. 0.1; 100 kPa	3 gal/min/ft (37.5 l/min/m)	ASTM D4716-08
Air-gap volume between dimples	approx. 0.13 gal/ft² (5.3 l/m²)	ASTM D4716-08
Water penetration resistance	> 120 psi (815 kPa) Watertight	AATCC 127-1995
Water vapor transmission	< 22 ng/(Pa s m²)	ASTM E96, Meth. A
Vapor permeance	< 0.3 perms [grains/h/ft²/in Hg]	ASTM E96, Meth. A
Temperature range	-22°F to +176°F (-30°C to +80°C)	ASTM D5261-92
Chemical properties	Excellent chemical resistance, resistant to root penetration, rot-proof	
Toxicity	non-toxic, non-polluting	
Weight per unit area	approx. 17 oz/yd² (580 g/m²)	ASTM D5261-92 (2003)
Roll length	65' 7" (20 m)	
Roll width / weight	3' 6" (1.07 m)	28 lbs (12.7 kg)
	5' (1.52 m)	41 lbs (18.6 kg)
	6' (1.83 m)	47 lbs (21.3 kg)
	6' 7" (2.00 m)	51 lbs (23.1 kg)
	7' (2.13 m)	55 lbs (24.9 kg)
	8' (2.45 m)	63 lbs (28.6 kg)
	9' 10" (3.00 m)	77 lbs (34.9 kg)
Service life expectancy	> 25 years (at pH between 4 and 9, and temperature below 77°F / 25°C). Do not expose to UV light for more than 30 days.	

DELTA® products support sustainable and energy-efficient building practices, including efforts toward achieving LEED® certification (LEED® for New Construction & Major Renovations, LEED® for Core and Shell, LEED® for Existing Buildings and LEED® for Homes).

For technical support, call our technical support team at 1-888-4DELTA4 (1-888-433-5824) extension 326, or visit [www.cosella-dorken.com](http://www.cosella-dorken.com).

ICC-ESR # 2303 Dampproofing & Wall Waterproofing Membrane  
CCMC # 12788 Drainage Layer  
CCMC # 12658 Dampproofing

Cosella-Dörken Products Inc. 4655 Delta Way Beamsville, Ontario L0R 1B4  
1-888-4 DELTA 4, (905) 563-3255 Fax: (905) 563-5582  
[info@cosella-dorken.com](mailto:info@cosella-dorken.com), [www.cosella-dorken.com](http://www.cosella-dorken.com)

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