

TECHNICAL DATA SHEET

DELTA®-MS 20

Horizontal Underground Application.

MATERIAL

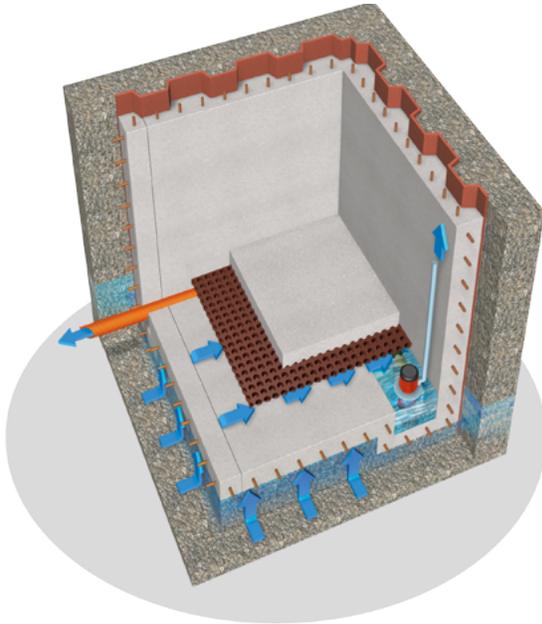
DELTA®-MS 20 is manufactured with an exclusive co-extrusion process, utilizing 60% recycled high density polyethylene (HDPE) from municipal recycling programs in the middle, and two thin layers of a special virgin HDPE on the outside. The encapsulation of the recycled HDPE ensures that DELTA®-MS 20 is protected against degradation caused by oxidation and environmental influences. It is an environmentally friendly product. DELTA®-MS 20 does not rot when in contact with soil.

PROPERTIES

With its 20 mm octagon-shaped dimples and very high drainage capacity, DELTA®-MS 20 is ideally suited as a reliable high performance seepage and drainage layer in blind-side applications against shotcreted surfaces.

APPLICATION

In constructions of underground buildings such as parking garages, DELTA®-MS 20 is installed horizontally between the foundation slab and the concrete floor to drain off water influx caused by an elevated groundwater level.



Technical Data

Product name	DELTA®-MS 20	
Color	brown	
Material	Recycled high-density polyethylene, encapsulated between two layers of special virgin HDPE	
Dimple height	0.79 in (20 mm)	ASTM D6364-06
Compressive Strength	4,160 psf (200 kN/m ²)	ASTM D6364-06
Drain capacity between dimples (Flow rate @ Hydr. grad. 0.1; 5 kPa)	13 gal/min/ft (161 l/min/m)	ASTM D4716-08
Drain capacity between dimples (Flow rate @ Hydr. grad. 0.02; 5 kPa)	5.7 gal/min/ft (71 l/min/m)	ASTM D4716-08
Volume of air between dimples	43.98 fl. oz / ft ² (14 l/m ²)	ASTM D4716-08
Chemical properties	Resistant to chemicals Root-penetration resistant Does not rot when in contact with soil	
Toxicity	Non-toxic, non-polluting	
Temperature range	-22°F to +176°F (-30°C to +80°C)	
Chemical properties	Excellent chemical resistance, resistant to root-penetration, rot-proof	
Toxicity	non-toxic, non-polluting	
Roll dimensions	6.6' x 65.6' (2 x 20 m)	
Service life expectancy	> 25 years (at pH between 4 and 9, and temperature below 25°C). The membrane should not be exposed 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.dorken.com.