

 **TENCATE**
Nicolon®

**LINERS & FLOATING COVERS
FOR MANURE STORAGE**

DURABLE IN MANY WAYS

 **TENCATE**
INDUSTRIAL FABRICS

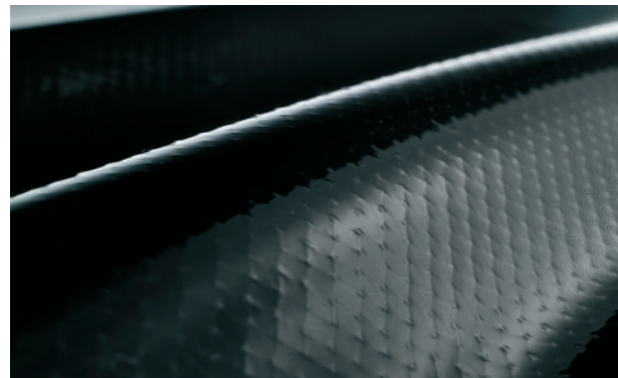
TENCATE NICOLON® C119/800

Liners for manure storage in basins and silos

DESIGNED TO MEET TOMORROW'S NEEDS

TenCate Industrial Fabrics is specialist in the production of reinforced membranes, developed for the storage of manure and for the storage of effluent from biogas digesters.

TenCate Nicolon® C119/800 is a reliable membrane that is known in the agricultural market for more than 20 years and designed to meet tomorrow's needs.



DURABLE

The durability of this material is proven over the years under many different circumstances in the most severe climates. Special metallocene polyolefin is the raw material that gives the characteristics of the membrane.

These characteristics are among others a high UV- and chemical-resistance membrane and enable easy welding.

EASY TO INSTALL

The flexibility of the material enables us to supply the welded liners up to 5.000 m² in one piece, so it can easily be rolled out and unfolded at the installation site.

The pre-welded panels are in-house made under conditioned circumstances, so independent from any weather condition. In these agricultural projects our type of pre-welded liners are an efficient and economical aid.

The membrane has been tested and approved by the Dutch/German institute KIWA GmbH in Germany under BRL 546/05. The material has the EN Declaration of Performance (DoP).

ADVANTAGES

- › Liners up to 5.000 m² in one piece
- › Proven technology; more than 10.000.000 m² installed
- › Certified for most European countries
- › Suitable for the most severe climates
- › Design tool available
- › Flexible liner of 1,2 mm thickness
- › Bi-axial strength
- › Durable
- › On site weldable by hot air and hot wedge



high tensile strength



durable



UV resistant



chemical resistant



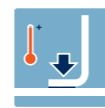
flexible



dimensional stable



extreme temperature performance



weldable

TENCATE NICOLON® C119/800

Floating covers for manure storage in basins and silos

AVOID EMISSIONS AND ODOR

In some European countries there is the obligation of covering the manure / effluent basin, or silo to avoid emissions and odor.

This regulation has been effective in the Netherlands for more than 20 years. TenCate Industrial Fabrics has a solution in the form of the TenCate Nicolon® C119/800 membrane, that is also being used for liners.



The floating cover is installed on top of the liner, after installation is finished, the manure/effluent is pumped between the liner and the floating cover. Floats with outlets under the cover keep the membrane floating, even after heavy rain fall. As a cover, high UV resistance of the TenCate Nicolon® C119/800 membrane is one of the most important properties.

TenCate Nicolon® C119/800 is the better alternative for PVC, HDPE and EPDM!



For your convenience, TenCate has created a design tool you can use to calculate the optimal size of your basin. Please visit our website www.tencateindustrialfabrics.com

CONSTRUCTION

Basic material	m-LDPE, PET multi-filament
Colour	Black
Weight	970 gr/m ²
Thickness	1,2 mm

MECHANICAL PROPERTIES

MACHINE DIRECTION	
Tensile strength	24 kN/m
Elongation at max strength	17,0%
Tear resistance	400 N
CROSS DIRECTION	
Tensile strength	24 kN/m
Elongation at max strength	17,0%
Tear resistance	400 N
Joint strength	> 50%
PERFORATION RESISTANCE	
	300 mm

PROPERTIES

Water permeability	1,00E-0,6 m ³ /m ² /day
Gas permeability	3,00E-0,3 m ³ /m ² /day
Water tightness	0,6 mPA/72 hours



