

## PROTAN HydraPlan



### Product Description:

Protan HydraPlan is a homogenous, flexible waterproofing membrane made of plasticised PVC. The membrane is designed for functionality and versatility and can both be used for waterproofing of below ground level constructions and for geomembrane applications. The product has a dark grey surface and is available in different thicknesses.

### Application Areas:

Below ground level constructions:

- Horizontal and vertical waterproofing of foundations, basements and terraces.
- Underground infrastructure exposed to ground water pressure, including domestic buildings, public buildings, industry buildings and urban infrastructure, such as parking garages.

Geomembrane applications:

- Sealing of water structures such as artificial lakes, ponds, irrigation canals, watercourses and waterfalls, dams and hydraulic structures.
- Rainwater retention systems in urban areas.
- Fire water reservoirs for large buildings.

### Characteristics / Benefits:

- Complies with EN 13967 and meets all standard requirements.
- Homogenous material.
- UV- and weather resistant.
- Not compatible with bitumen.
- The membrane is welded together using hot air which provides a homogenous joint.
- The membrane can be recycled and has a low carbon footprint.

**Table 1: Product properties**

PROPERTY	VALUE	UNIT	EN 13967 - TEST METHOD
Thickness	1.5 (-5/+5%)	mm	EN1849-2
Tensile strength L/T	≥ 16 / 15	N/mm <sup>2</sup>	EN12311-2(B)
Elongation L/T	≥ 250 / 250	%	EN12311-2(B)
Tear strength nail shank	≥ 300	N	EN12310-1
Dimensional stability	≤ 2	%	EN 1107-2
Foldability at low temperature	≤ 20	°C	EN495-5
Resistance to static load	≥ 20	Kg	EN12730
Resistance to impact	≥ 450	mm	EN12691)
Joint shear resistance	≥ 600	N/50mm	EN12317-2
Joint peel resistance	≥ 180	N/50mm	EN 12316-2
Water vapour transmission	≥ 18 000 +/- 30%	my	EN 1931
Water tightness	Pass		EN1296 / EN1928
Water permeability	Pass		EN1928
Visible defects	Pass		EN1850-2
Effect of liquid chemicals, including water	Resistant		EN1847
Reaction to fire	Class E		EN13501-1

### Colour:

TOP LAYER:	F94 (Dark grey)
BOTTOM LAYER:	Black

## PRODUCT DATA SHEET

### Dimensions / packaging

Thickness	1,5mm						1,8mm						2,0mm					
Width	2,2	m					2,2	m					2,2	m				
Length	20	m					20	m					20	m				
Weight	2,0	kg/m <sup>2</sup>					2,4	kg/m <sup>2</sup>					2,7	kg/m <sup>2</sup>				
Roll	44	m <sup>2</sup>					44	m <sup>2</sup>					44	m <sup>2</sup>				
Pallet	13	Rolls/pallet	572	m <sup>2</sup>	972	kg	13	Rolls/pallet	572	m <sup>2</sup>	1373	kg	13	Rolls/pallet	572	m <sup>2</sup>	1544	kg

### Health, Environment & Safety:

There is no requirement for a material safety data sheet according to EC-regulation 1907/2006, article 31. The product does not harm the environment when used as specified.

### Environment:

Protan HydraPlan contains no substances which are listed on REACH/ ECHA's (European Chemicals Agency) candidate list.

The membrane contains no priority environmental pollutants or other relevant substances in quantities considered to be hazardous to health and the environment.

Leaching from the product is assessed to not adversely affect soil, ground water or drinking water.

### Installation details:

The membrane is welded using hot air and shall be installed according to the Protan Technical Installation Manual and associated Protan Technical Information Sheets.

### Storage:

Protan membrane should be kept dry with the rolls placed on pallets and protected at the building site with tarpaulins or similar.

### Approvals:



1020-CPR-01042861

### Protan Legal Notice

The details provided in this document, especially the recommended application and utilisation for the products and their system accessories, are based on Protan's current knowledge and experience of the products when properly stored, handled and installed under normal conditions according to Protan's recommendations. A warranty in respect of merchantability or of fitness for a particular utilisation, nor any liability arising out of any legal relationship whatsoever, cannot be inferred either from this information, or from any written or verbal recommendations, due to the differences in materials, substrates and actual site conditions in practice. The user of the product is responsible for the product's suitability for the intended application. Protan reserves the right to change product specifications without notice. Additionally, Protan's current sales and delivery terms are valid and applicable for all orders. It is necessary for the user to always refer to the latest version of the relevant Product Data Sheet, which can be requested directly from Protan. All information provided, as well as technical and drawing data, complies with current technical standards and is based on Protan's knowledge and experience. In addition, national standards and regulations must be observed where appropriate.