

# GEOMEMBRANE HDPE

STRONG AND DURABLE INSULATION

## APPLICATIONS AND ADVANTAGES:

### APPLICATIONS

The HDPE geomembrane is made from high density polyethylene and constitutes a hydroinsulation protection of the soil. It is used in waterproof and gas proof shields.

### ADVANTAGES

- ▶ UV resistant
- ▶ fully resistant to most chemical compounds and alkalies
- ▶ the low weight and big width of the rolls enable an efficient performance of the works
- ▶ perfect for protection from aggressive chemicals, including petroleum and animal compounds
- ▶ very resistant to tearing
- ▶ does not biodegrade
- ▶ environment-friendly
- ▶ long durability – once applied, it works for many years

### APPLICATIONS

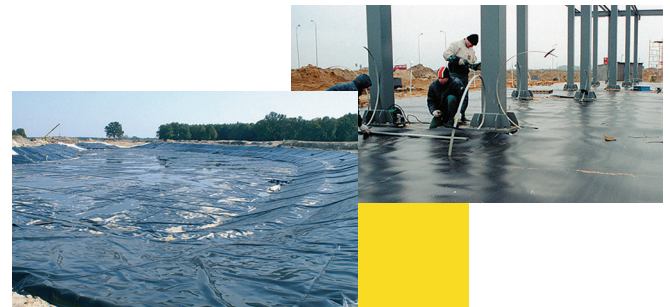
- ▶ Building insulation
  - foundations and basements
  - terraces and balconies
  - transitions of pipes and other conduits in foundations
- ▶ Insulation engineering structures
  - water tanks
  - fire tanks
  - oil tanks
  - retention tanks
- ▶ Insulation in environment protection
  - evaporation tanks
  - sewage treatment plants
  - waste dumps
  - gas stations
  - water dams
  - flood banks

A list of the chemical compounds to which the HDPE membrane is resistant is available on request.



### SEALS

The joining of the geomembrane bands takes place through welding by means of specialized equipment, and the tightproofness of the welds is verified with the use of pressure tests or vacuum shades.



### TECHNICAL DATA

	1	1,5	2	2,5
Thickness (PE EN 1849-2) (mm)	1,0 mm	1,5 mm	2,0 mm	2,5 mm
Basis weight (g/cm <sup>3</sup> )	≥ 0,94			
Strength at elasticity limit (EN ISO 527) (MPa)	> 24,7 21,9	> 22,8 22,3	> 24,7 23,4	> 24,2 23,4
Tensile strength (EN ISO 527) (MPa)	> 29,6 28,8	> 27,6 30,7	> 30,8 31,5	> 230,8 31,5
Unit elongation (EN ISO 527) (MPa)	> 800 %			

### CHEMICAL RESISTANCE

It is resistant to chemical substances, fungi, roots and bacteria present in the ground. It is completely neutral to the natural environment.

