

CUBEMAX

HIGH-DENSITY POLYETHYLENE (HDPE) GEOMEMBRANE PRODUCTS & SERVICES

ADVANTAGES AND FEATURES:-

- ❖ Protective Barrier
- ❖ High Durability
- ❖ Chemical Resistance
- ❖ Safe
- ❖ Light weight
- ❖ High impact resistant
- ❖ Flexible
- ❖ Self-restrained joints
- ❖ Leak proof system
- ❖ Low installation cost
- ❖ Long term service life
- ❖ Secure water containment
- ❖ Improved water quality control
- ❖ Disease control



GREENING THE ENVIRONMENT
CARING THE WORLD



ABOUT HDPE LINING SYSTEM

HDPE Geomembranes are the most widely used products in the world for solid waste containment (such as landfill liners), waste water treatment lagoons, animal waste lagoons, mining and water containment applications where its chemical resistance is used to good effect and cost effective choice for exposed lining projects. HDPE is excellent product which best used as an exposed lining material that has UV and Ozone resistance or high quality installation.

There are two different types of materials that use the highest quality resins to manufacture the widest selection of high-density polyethylene (HDPE) and linear low-density polyethylene (LLDPE) geomembrane products available in either a black, green or white upper surface, and in either a smooth or textured single or double-sided surface. The suitable liner to use is high-density polyethylene (HDPE), commonly called geomembrane. HDPE is the most chemical resistant type of polyethylene, and offers great ultraviolet protection and ageing resistance from the intense stresses of weather. Usually, the thickness of HDPE liner used is 1–1.5 mm.

HDPE Lining is made from polymeric materials to protect such as concrete and steel. The increasing demand of HDPE geomembranes liners is due to the oxidation of chlorine that is added in water to kill bacteria which eventually corrodes the surface of concrete and steel walls, reinforcement bars and degradation of equipment in tank. This will incur continuous repairs at great expense to the owner.

APPLICATION OF HDPE GEOMEMBRANE

Our High Density Polyethylene (HDPE) geomembrane plastic lining systems are used for the containment and management of solids, liquids and gases for various applications including:

- ❖ Sanitary Landfill, Leachate Collection and Oxidation Ponds
- ❖ Concrete and Pressed Steel Tanks
- ❖ Sewage, Wastewater, Chemical Treatment and Sludge Ponds
- ❖ Water Reservoir, Dams, Recreation Ponds and Water Containment
- ❖ Mining, Power Plants, Ash Ponds and Secondary Containment
- ❖ Aquaculture Ponds and Agriculture Weather Sheet
- ❖ Floating Covers, Covered Lagoons and CDM Biogas Digesters

RC & HDG PRESS STEEL TANK ACCESSORIES

- ❖ Aluminum Manhole
- ❖ Internal External Aluminum Cat Ladder
- ❖ MS Level Indicator

HDPE LINING WELDING MACHINE

- ❖ Fusion Welding Method
- ❖ Extrusion Welding



PHOTO GALLERIES



INDUSTRIES APPLICATIONS

MINING



The HDPE Geomembrane's applications for Mining industries are as :

- ❖ Heap Leach Pad
- ❖ Chemical or Pregnant Solutions
- ❖ Chemical or Pregnant Solutions
- ❖ Tailings

OIL & GAS



The HDPE Geomembrane has been strongly involved and used in industries such as:

- ❖ The Natural Gas industry
- ❖ The Coal industry
- ❖ The Petrochemical industry
- ❖ The Power industry

BIOGAS



The HDPE Geomembrane covered anaerobic lagoon lining systems for industrial/domestic wastewaters. The applications such as:-

- ❖ Palm Oil Mill Effluents (POME)
- ❖ Animal Wastes
- ❖ The Sugarcane/Tapioca Starch Wastes

WASTE MANAGEMENT



The best idea of applications for HDPE Geomembrane to be used in contaminated waste areas for protecting the landfills to avoid leakage and ground water contamination such as:

- ❖ Municipal Waste Landfills
- ❖ Hazardous Waste Landfills
- ❖ Industrial Waste Landfill
- ❖ Landfill Capping

WATER MANAGEMENT



The applications of HDPE Geomembrane for water management are as:

- ❖ Landscaping Pond
- ❖ Golf Course Pond
- ❖ Water Detention Pond
- ❖ Storm water Management

AQUACULTURE



The applications of HDPE Geomembrane are widely trusted and used by Aquaculture facilities to contain and control quality of water from being contaminated. The different aquafarming such as:

- ❖ Shrimp farming
- ❖ Fish farming
- ❖ Crab farming

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