

# Geosynthetic products for infrastructure.



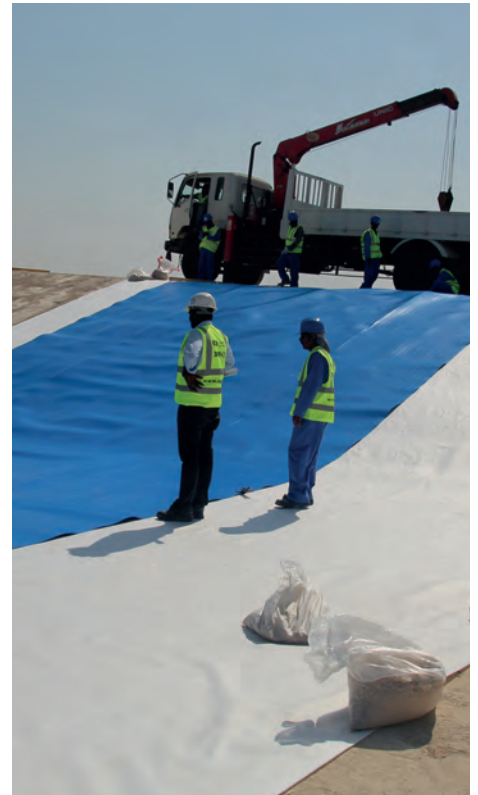
**CORYS** | Geosynthetics



## WHO WE ARE

Corys Geosynthetics is a leading manufacturer of geomembrane and supplier of other geosynthetic products in Middle East. Corys Geosynthetics is committed to offering the most comprehensive range of geosynthetic products for civil engineering applications. We manufacture / supply geosynthetic products which provide solutions for liquid containments, filtration, separation, reinforcement, drainage and waterproofing to infrastructure projects. Corys Geosynthetics has its headquarters in the UAE as well as operational offices in Oman , Bahrain and Qatar.

Corys Geosynthetics supplies world-class geomembranes, geotextiles, geogrids, geocells and GCL. We also partner with renowned installers and provide installation services if required. To date, Corys Geosynthetics have manufactured and supplied over 25 million sqm of geomembranes and other geosynthetics products for different applications in 20 countries across Middle East, Africa, Asia, CIS and Australia. We also provide technical support to contractors and consultants.



## GEOMEMBRANE

Corys Geosynthetics manufactures HDPE, LLDPE, PP, and VLDPE liners. Our geomembranes are manufactured according to ASTM, BS and DIN standards meeting GRI and EN specifications. Corys geomembranes are manufactured in 6 and 7 metre width, from 0.75 mm to 3.00 mm thickness in both smooth and textured form.

Corys geomembranes are manufactured on state of art machinery from Europe. We have a well-established in-house laboratory to test incoming raw materials and finished products. Each roll is tested before shipment and material test certificate is provided. Our logistics team is capable of delivering material on time, anywhere in the world.

Corys geomembranes have proven effectiveness in lining applications such as evaporation ponds, landfills, heap leach pads, canals, lagoons & lakes, secondary containments, modular tanks, tunnels, green roof and root barriers. Today, our geomembranes are widely recommended in the Middle East, Africa, CIS and Asia for prestigious projects in the following industries:

- Oil and Gas
- Waste management – Municipal and Hazardous Landfills
- Mining Industries
- Drainage and Water Facilities
- Energy Sector
- Agriculture, Landscape and Fisheries



## GEOTEXTILES

Corys Geosynthetics offers high quality woven, non-woven, needle-punched and thermally bonded geotextiles manufactured from polypropylene and polyester. Our geotextiles are produced from world class staple fibres composed of strong, durable, chemically-inert polymeric materials resistant to the effects of site-specific ground conditions, weather and aging. Depending on the application, they meet requirements, such as creep resistance, temperature resistance and/or ultraviolet exposure.

Our geotextiles range from 80 gsm to 2000 gsm in various structures and polymer compositions designed to meet a wide range of applications. Our woven geotextiles exhibit high tensile strength, high modulus and low elongation. Needle punched non-woven geotextiles typically have high permeability as a result of their high porosity, conformability and elongation characteristics. Compared to needle-punched non-woven geotextiles, thermally-spun, bonded, non-woven fabrics typically have high modulus and conformability.

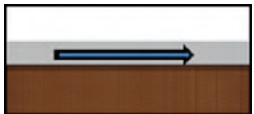
Our geotextiles have numerous applications, but there are five major functions: separation, reinforcement, filtration, drainage, and protection. We generally apply our geotextiles to civil uses such as lagoons, landfills, roads or railways. For certain applications, we install geotextiles as a protection layer for HDPE and other liners to avoid damage from sharp objects found in subgrade.



## APPLICATIONS



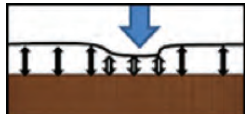
Filtration



Drainage



Reinforcement



Cushion



Waterproofing



Separation

## GEOCELLS

Used for protection and stabilization of soil, our geocell products are three-dimensional, expandable panels made from high-density polyethylene (HDPE), polyester or other polymer materials. Geocells are deployed to help improve the performance of standard construction materials and erosion-control treatments.

Typical applications include:

- Protecting and stabilizing steep slope surfaces
- Installing protective linings for channels and hydraulic structures
- Providing static and dynamic load support for vehicles on weak subgrade soil
- Constructing multi-layered earth and water retaining gravity structures





When expanded during installation, the interconnected strips form the walls of a flexible, three-dimensional cellular structure into which infill materials are placed. This creates a free-draining system that holds infill materials in position and prevents mass movements by providing confinement through tensile reinforcement. Cellular confinement systems improve the structural and functional behaviour of soils and aggregate infill materials.

The type of infills selected are primarily governed by the nature and intensity of anticipated working stresses, the availability and cost of candidate materials, and in some instances the aesthetic requirements for a fully-vegetated appearance. Basic geocell infill types are aggregates, vegetated topsoil and concrete.



## GEOGRIDS

Corys Geosynthetics offers both biaxial and uniaxial geogrids manufactured from polypropylene and PVC coated polyester yarns. Our uniaxial geogrids are available in a range of tensile strengths and are suitable for applications which require strength in one direction. The biaxial geogrids are designed for applications where strength is required in two directions. Our uniaxial geogrids are commonly used for reinforcing soil walls, steep slopes and basal reinforcement of embankments. Our biaxial geogrids are suitable for reinforcement of roads base and sub-base, ground stabilization and railway bed stabilization.



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