Canada’s leader of complete geosynthetic solutions

Since 1973, Terrafix has been dedicated to offering owners, engineers and contractors the correct choice of geosynthetic products and innovative technology.

Long recognized as an innovator in the industry, Terrafix now offers services which include design assistance, factory fabrication and installation of a wide range of geosynthetic products.

Terrafix’s professional staff of salespeople, field technicians, project managers and engineers are available to assist clients in maximizing the benefits that our geosynthetic products and systems make possible. We provide you, the engineer, contractor, and owner with technically sound cost saving solutions to your challenges.

• Core Mat erosion control mattings are made from core fiber which is 100% natural, organic, biodegradable and safe to wildlife.

• Terrafix® Anchoring Systems offers a unique mechanical stabilization solution for many steep slope challenges.

• Envirobags are designed to contain silt, sand and other fines while allowing water to filter out. Compared to other techniques, Envirobags offer superior performance in the protection of wetlands.

• Each Mud Mat is made up of a double layer of high strength 100% polypropylene, woven geotextile fabric that is stitched in such a way to encapsulate the reinforcing members that run perpendicular to the direction of traffic.

• Erosion control blankets provide a mechanically stabilized form of immediate cover, functioning as a barrier against both the detachment and transportation phase of erosion process, until vegetation or reinforced vegetation assume this function.

• Silt Curtains are designed to deflect and contain sediment within a designated area. Manufactured from high strength geotextiles and fabricated to a variety of sizes.

• Biodegradable erosion blankets help establish vegetation and prevent erosion from wind and rain

• Silt fences help to contain silt runoff from construction sites.

• Cellular confinement systems are used to confine and strengthen infill materials such as rock sand and topsoil.

• Stormwater management solutions allow developers to match pre and post development hydrology.

• Pipe solutions provide conveyance options as well as permanent effective restoration of deteriorated traditional pipes and culverts.

The Terrafix group of companies is dedicated to providing engineered, geosynthetic alternatives to the designer, owner and contractor in civil, industrial and environmental industries.

Terrafix offers a turn-key approach to solving environmental problems.

Terrafix products have been extensively tested by private industry, universities and engineering consultants.

Terrafix products and construction technology have been successfully applied around the world. From engineering to construction, our teams of experienced professionals are committed to providing the most advanced engineered solutions to today’s environmental challenges.

Solving environmental problems is a serious business and at Terrafix we take our business seriously.
FLEXICRETE® is a system of solid concrete blocks connected together to form continuous inter-connected areas which can be used for a variety of purposes. The standard individual blocks are square.

Depending on the purpose for which the FLEXICRETE® panels are to be used, different types of interlocking materials can be used such as mild steel, nylon rope, high tensile steel and stainless steel aircraft cable.

FLEXICRETE® can be used for:
• embankment protection to prevent erosion
• open storm drain lining
• aqueduct lining
• shore and beach protection
• breakwaters
• tidal launch ramps
• spillways
• pond lining support
• paving, roads, military roads, express road shoulders
• parking areas and protection of buried utilities including utilities under water.

TerraWeb
TerraWeb® is a light-weight, flexible, polyethylene confinement system consisting of three-dimensional cells in a honeycomb-like structure. TerraWeb® creates an economical erosion barrier or structural foundation.

For difficult erosion control situations, the TerraWeb® cellular confinement system can be substituted for a more convenient system of expensive heavy materials such as rip-rap, armour stone, gabions etc. TerraWeb® can be filled with soil, sand, small rock or concrete. The cells confine the fill material and protect it from being moved by wind or water. The cell walls prevent formation of rills and gullies.

Features
• Light weight and easy to install
• Reinforces unstable surfaces
• Eliminates over excavation
• Eliminates excessive stone placement

Benefits
• Reduced material cost
• Reduced labour cost
• Reduced installation cost
• Economical option to strengthen soft soil areas

ScourStop™ transition mat is a biotechnical replacement for hard armor. It is a mechanically-anchored 4 ft. x 4 ft. x .5 inch semi-rigid, polymer mat designed with voids throughout the structure which enable vegetative growth. Transition mats provide mechanical protection over highly erosive areas, like stormwater pipe outfalls, curb outfalls, over-flow structures, and shorelines. Transition mats provide protection against much higher shear stress and velocities than vegetation alone or rock rip rap; and are comparable in performance to Articulated Concrete Blocks.

Elements of the Transition Mat System:
• Mechanical Protection
• Reinforces appropriate soil covers
• Deep-anchoring soil stabilization

Mechanical Protection
• Provides impact resistance, tensile strength and permanent durability against high erosive stresses. The semi-rigid mats conform to soil profiles, uniformly securing soil covers to the ground.

Soil Covers
• Soil is extremely erosive. Some type of best management practice (BMP) cover is required under ScourStop™. Typically a soil reinforcement mat (FM20-19M), or soil, provides maximum protection for every soil type and condition.

Deep Anchoring
• With an average of 8 anchors per mat, deep anchoring helps the mat conform to the native topography, securing the mat to the soil in a uniform manner.

Gabion Baskets
Gabion baskets are wire mesh containers made from double twisted, hexagonal woven wire mesh. Once assembled, the baskets are filled on site with durable stone in order to create flexible, permeable, monolithic structures.

Gabions can be used to create:
• erosion protection structures
• weirs
• soil retaining walls (gravity and MSE)
• culvert headwalls

Gabion structures are able to develop and integrate with the surrounding environment, permitting the preservation or restoration of the natural environment.

The filtering capability of the rock fill allows the soil, water, air, and plant life to interact naturally. Plant life can be developed even quicker by designing steps between each vertical layer creating planting shelves. As gabions provide a completely natural look, they have also been used by architects as decorative elements of the landscape.

Please click here for more info
**FLEXICRETE®**

FLEXICRETE® is a system of solid concrete blocks connected together to form continuous inter-connected areas which can be used for a variety of purposes. The standard individual blocks are square. Depending on the purpose for which the FLEXICRETE® panels are to be used, different types of interlocking materials can be used such as mild steel, nylon rope, high tensile steel and stainless steel aircraft cable.

FLEXICRETE® can be used for:
- embankment protection to prevent erosion
- open storm drain lining
- aqueduct lining
- shore and beach protection
- breakwaters
- block launch ramps
- spillways
- road lining support
- paving, roads, military roads, express road shoulders
- parking areas and protection of buried utilities including utilities under water.

Please click [here](#) for more info.

**Terraweb®**

Terraweb® is a light weight, flexible, polyethylene confinement system consisting of three-dimensional cells in a honeycomb-like structure. Terraweb® creates an economical erosion barrier or structural foundation.

For difficult erosion control situations, the Terraweb® cellular confinement system can be substituted for a more conventional system of expensive heavy materials such as rip-rap, armour stone, gabions etc. Terraweb® can be filled with soil, sand, small rock or concrete. The cells confine the fill material and protect it from being moved by wind or water. The cell walls prevent formation of rills and gullies.

Features
- Light weight and easy to install
- Reinforces unstable surfaces
- Eliminates over excavation
- Eliminates excessive stone placement

Benefits
- Reduced material cost
- Reduced labour cost
- Reduced installation cost
- Economical option to strengthen soft soil areas

Please click [here](#) for more info.

**ScourStop™**

ScourStop™ transition mat is a biotechnical replacement for hard armor. It is a mechanically-anchored 4 ft. x 4 ft. x .5 inch semi-rigid, polymer mat designed with voids throughout the structure which enable vegetative growth. Transition mats provide mechanical protection over highly erosive areas, like stormwater pipe outfalls, curb outfalls, over-flow structures, and shorelines. Transition mats provide protection against much higher shear stress and velocities than vegetation alone or rock rip rap; and are comparable in performance to Articulated Concrete Blocks.

Elements of the Transition Mat System:
- Mechanical Protection
- Reinforces appropriate soil covers
- Deep anchoring soil stabilization

Mechanical Protection
- Provides impact resistance, tensile strength and permanent durability against high erosive stresses. The semi-rigid mats conform to soil profiles, uniformly securing soil covers to the ground.

Soil Covers
- Soil is extremely erosive. Some type of best management practice (BMP) cover is required under ScourStop™. Typically a soil reinforcement mat (FM200-TRM), or soil, provides maximum protection for every soil type and condition.

Deep Anchoring
- With an average of 8 anchors per mat, deep anchoring helps the mat conform to the native topography, securing the mat to the soil in a uniform manner.

**Gabion Baskets**

Gabion baskets are wire mesh containers made from double twisted, hexagonal woven wire mesh. Once assembled, the baskets are filled on site with durable stone in order to create flexible, permeable, monolithic structures.

Gabions can be used to create:
- erosion protection structures
- weirs
- soil retaining walls (gravity and MSE)
- culvert headwalls

Gabion structures are able to develop and integrate with the surrounding environment, permitting the preservation or restoration of the natural environment.

The filtering capability of the rock fill allows the soil, water, air, and plant life to interact naturally. Plant life can be developed even quicker by designing steps between each vertical layer creating planting shelves. As gabions provide a completely natural look, they have also been used by architects as decorative elements of the landscape.
Erosion Control Blankets

Erosion control blankets provide a mechanically stabilized form of immediate cover, functioning as a barrier against both the detachment and transportation phase of erosion process until vegetation or reinforced vegetation assume this function. Erosion control blankets are intended for the following applications:

- Slope protection
- Channel and ditch linings
- Reservoir embankments and spillways
- Dikes, levees and riverbanks
- Culvert inlets and outfalls

Benefits and features of RECPs:

- Reduce run off
- Consistent quality and performance
- Retain more water than hydro mulch covers
- Ease of installation
- Excellent performance in strength and durable under high velocities
- Vegetation performs better with blankets than with hydro mulches
- Reduce sediment concentration and soil loss

Coir Mats

Terrafix® Coir Mats are made from 100% natural biodegradable coconut fibre and are naturally resistant to rot and moulds. They are excellent for controlling soil erosion by holding the soil in place and dissipating the force of heavy rains and run-off water.

With a longevity of 36 to 72 months, Coir Mats will provide good support while allowing natural vegetation to become established. They will also promote growth of new vegetation by absorbing water and preventing the topsoil from drying out, creating an ideal micro-climate for seed germination.

Coir Mats are available in 3 varieties, being Coir Mat 400, Coir Mat 700 & Coir Mat 900, with the number corresponding to the density in g/m² for that particular mat.

Applications:
- Slope and channel stabilization
- Stream and river bank stabilization
- Wetland construction
- Golf courses
- Erodible sea shore
- Dams
- Tidal marshes
- Detention ponds

Tackmats

Terrafix® Tackmats enhanced Erosion Control Blanket consist of a 100% certified weed free straw matrix stitched to a single net. The matrix of the blanket has been treated by way of a proprietary process to improve the erosion control and vegetative establishment performance of the material by adding an all-natural tackifier. Tackmats is available with photodegradable, synthetic netting (Regular); rapid photodegradable, synthetic netting (Rapid-Go) or all natural, biodegradable netting (All Natural).

Tackmats provides erosion control for a period of up to twelve months (45 - 90 days as Rapid-Go style) and serves as a mulching layer. Actual longevity is dependent on soil and climatic conditions. Available in a variety of roll sizes, Tackmats provides reliable, economical erosion control, ideal for slope projects that would benefit from greater erosion protection and improved mulching.

Please click here for more info

TerraFirm®

TerraFirm® anchors and surface mats provide a long-lasting solution to many erosion control challenges. Surface protection materials may include: bi-axial geogrids, TRMs, biodegradable blankets.

Steep slopes and embankments create numerous challenges both during construction and long term. Although they are necessary for efficiency of land use, you may find yourself dealing with problems due to one or more of the following:

- Erosion due to over land flow
- Lack of healthy vegetation
- Poor drainage
- Over steepening

TerraFirm® Anchoring Systems offers a unique mechanical stabilization solution for many steep slope challenges featuring:

- Fast and easy installation
- Stabilization without excavation
- Wide variety of surface protection options
- Easy design load calculation
- On-site assistance
- Low environmental impact

Please click here for more info
Erosion Control Blankets

Erosion control blankets provide a mechanically stabilized form of immediate cover, functioning as a barrier against both the detachment and transportation phase of erosion process until vegetation or reinforced vegetation assume this function. Erosion control blankets are used to prevent surface erosion and accelerate the establishment of vegetation. Typically, blankets are intended for the following applications:

- Slope protection
- Channel and ditch linings
- Reservoir embankments and spillways
- Dikes, levees and riverbanks
- Culvert inlets and outfalls

Benefits and features of RECPs:

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- Consistent quality and performance
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The posts are tapered at the base to facilitate ground penetration.

Envirobags are a cost effective solution for dewatering applications. Custom sizes are available to meet specific discharge capacities.

Terrafix® is a preassembled sediment control structure designed with environmental concerns in mind.

Terrafence heavy duty fabric is reinforced with polypropylene mesh for additional strength. Hardwood posts are attached to the fabric using heavy duty industrial staples.

SiltSoxx™ is a sediment trapping device which traps sediment by filtering the water passing through it, also allowing water to pond, creating a settling of solids behind the product.

Mud Mats can be used in construction site access, agriculture, golf & parks, other soft or sensitive ground condition areas where vehicle access is required. With these Mud Mats ground pressure from vehicle tires is reduced up to 40% causing minimal ground disturbance! Mats can be connected together to form custom sizes. Please click here for more info

Meter Bags

Mud Mats are a temporary dam to enclose a work area and permit the removal of water. Meter bags have 4 lifting hoops sewn directly into each corner seam, which are also sewn together with the main body fabric for extra strength. They are made of high strength woven polypropylene. They can be filled with any on site material or sand.

Advantages:

- allows work to be carried out in a dry area.
- faster and easier to work with than sand bags

Please click here for more info

SILTSACK®

SILTSACK® is a simple and cost-effective solution to prevent clogging of catch basins. SILTSACK® is a sediment control device used to prevent silt and sediment from entering your drainage system.

SILTSACK® traps the silt / sediment but allows water to pass into the sewer. SILTSACK® can be used as a primary or secondary sediment control device to prevent failure of drainage system due to clogging with silt / sedimentation. Maintenance of the SILTSACK® on a regular basis will ensure that the SILTSACK® will function properly. Please click here for more info

Silt Curtains

Silt Curtains are used to provide protection for a watercourse from land disturbance or from dredging or filling within the watercourse. Placed in a waterway, they minimize sediment migration from a disturbed area by enclosing the area of work.

terrafix® Silt Curtains are manufactured from high strength geotextiles and water proof membranes, fabricated to a variety of sizes. Please click here for more info

To view our complete product line visit us at www.terrafixgeo.com
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Envirobags are a cost-effective solution for dewatering applications. Custom sizes are also available to meet specific discharge capacities.

Terrafence heavy-duty fabric is reinforced with polypropylene mesh for additional resistance to puncturing and tearing.

Envirobags are made of durable non-woven geotextiles that are UV stabilized and contains no external additives of any sort and no artificial colouring.

SiltSoxx™ is a sediment-trapping device which traps sediment by filtering the water passing through the fabric without getting stuck, rutting or tracking mud off site. Silt Mats consist of pocketed, double-wall, high-strength fabric with high tensile reinforcing ribs confined within each sleeve which allows for easy deployment and amazing structural stability.

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Silt Curtains are used to provide protection for a watercourse from land disturbance or from dredging or filling within the watercourse. Placed in a water body, they minimize sediment migration from a disturbed area by enclosing the area of work.

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