



- Plantation
- Erosion control
- Shore revitalization

1976 - 2011

35 years of innovations



## The company

Founded in 1976, Multi-Formes is one of the most important North American manufacturers of products for the horticulture industry. The company makes and markets over 300 products and keeps growing by introducing innovative products that meet the needs of the marketplace.

In 2007, Multi-Formes set up the Environment division in order to offer a range of products based on 100% natural coconut fibers. These are used for various landscaping projects using natural products rather than heavy-handed civil engineering techniques.

Effective and biodegradable, our products are used to fight erosion and revitalize barren areas. They are used to promote vegetation growth and encourage biodiversity.

Multi-Formes is also a modern 15,000 sq. ft. plant and warehouse located in Quebec, Canada. This means a large storage capacity and continuity of supply. We sell our products directly from this warehouse, no intermediaries. Choosing Multi-Formes is opting for Quality, Innovation, the Best prices, Reliable delivery and products Indispensable for the care of the environment.

Marquis Patry, president

Check all our catalogues at [www.multi-formes.com](http://www.multi-formes.com)

## Our divisions

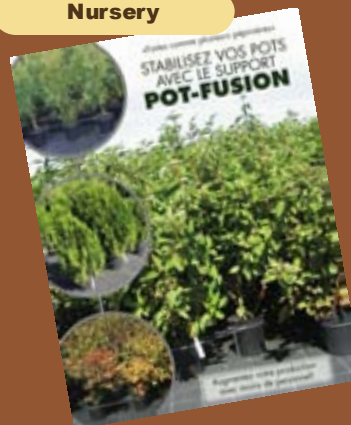
Environment



Horticulture



Nursery



Christmas





## *Natural solutions from an abundant natural resource*

### *Did you know....*

**Coconut-based products are a wise choice for the environment because they are made from recycled coconut shells... an abundant and rapidly renewable resource.**

Products derived from coconuts reduce our environmental impact. They replace ecologically-harmful products as well as natural products whose extraction destroys habitats. Coconuts grow abundantly in coconut palms. They mature within 12 months then fall to the ground.

A choice renewable resource, coconut fibers are used in a wide-range of landscaping products. Multi-Formes invites you to discover these natural and cost-effective quality items. Designed for use in horticulture and landscaping, they represent a wise and conscientious choice for the environment.



### *What is COIR ?*

Coir is the name given to the brown fibers that make up two thirds of a coconut. These fibers form a thick and resistant spherical casing that protects a white and fleshy interior. Once extracted, then washed and sun-dried, the fibers, 100 % natural and biodegradable, can be transformed into a wide range of environmentally-safe products.

The interior is used in food production. Rich in potassium, iron, magnesium, phosphorus, copper and zinc, a coconut is exceptionally nutritious. Thus, this renewable resource can both feed humans and provide a variety of safe products to improve our surroundings.

### *Product storage*

Natural coco fibers contain tannic acid. This agent prevents mildew and repels termites and other insects. Biodegradable in the field, coir products can be stored for years in a dry environment, without swelling or degradation.



# BioDISC

PLANTATION

Allows young trees  
to grow vigorously  
**Quick and easy to install**

During its first years, a tree competes with plants and weeds for nutrients and water from the soil. That's why it's important to inhibit the growth of vegetation around saplings.

Our BioDISCs give young trees a chance to quickly establish their roots and grow vigorously. Completely biodegradable, BioDISCs are an economic and ecological way to accelerate the growth of a plantation and improve its visual aspect.



BioDISC 45 cm

Saplings and shrubs ● Sarket gardening ● Bio-produce

- Eliminates competing weeds around saplings
- Increases the amount of sunshine young plants receive
- Preserves soil moisture
- Prevents weed trimmer injuries
- Facilitates finding plants before cutting them down accidentally

Diameter	Product Code	Shape	Weight	Thickness	Units / package
45 cm	# 620-45cm	Circular	1200 gr/m <sup>2</sup>	10-14mm	50
60 cm	# 620-60cm	Circular	1200 gr/m <sup>2</sup>	10-14mm	50

Other sizes or shapes available on request.



# Technical data

Composition	Compressed coconut fibers with a latex coating on one side ( <i>Lat ex is a nat ural adhesive produced by Heveas (rubber trees)</i> )
Product life	2 to 3 years (depends on the type of soil). The n biodegrades and enriches the soil with organic materials.
Certification	Approved for biologic agriculture by Ecocert Canada
Shape	Pre-cut circle with a star-shaped hole in the center. Quick and easy to install.
Thickness	10-14mm or 0.40"-0.56" (Thicker than BioDISCs for nurseries)
Average weight	1,200 grams/sq. m. (20% more fibers)
pH	Neutral (5.5 - 6.5)



**Easy to carry  
+/- 28 lb. / pkg.**

## Installation

Put the glazed side (the latex side) face down on the ground. Fasten with metallic U-pins.

In a large plantation, the BioDISC can be installed directly on the grasses around the trunk as long as it is securely fastened. The grasses will decay under the BioDISC. However, a BioDISC will last longer if it is applied directly on bared soil.

1

Plant the sapling and water generously.



2

Install the BioDISC, overlap and fasten the ends.



3

Fasten with at least two U-pins. See page 11.



## Other sizes

Sizes from 16 to 34 cm (6.3" to 13.3") are also available. They are used for potted plants by nurseries and allow growing without herbicides.

These BioDISCs are thinner (8-10mm) and their product life in the field may be shorter. Can be used for special projects.

# Control erosion while restoring a natural habitat.



Photo : Les Feuillages du Québec Inc.



## CoirMAT

# 900



For slope 1:1 and more

# 700



For slope until 1:1

# 400



For slope 3:1

Control erosion and restore the vegetation cover that promotes biodiversity .  
Used for road embankments, shores, ditches, green roofs, landfills, etc.

A CoirMAT is a machine-weaved net made from coir cord. Coir (coconut fiber) is a natural product of coconut trees (*Cocos Nucifera*). It is 100% biodegradable and contains no additives (chemicals, colorants, etc.).

CoirMATs are appropriate for most civil engineering projects where parts of the landscape must be restored to a natural appearance. Designed to protect from rain splash erosion and wind erosion, it lasts 5 to 6 years - long enough for vegetation to take hold and assume its protective role. (Product life may vary accordingly with climatic and physical conditions.)

The high tensile strength of CoirMAT enables it to withstand physically harsh environments such as abrupt slopes and rivers with strong currents. It resists extremes of temperatures and wind. It is appropriate for dunes, semi-arid and mountainous areas, and other places where wind and sun exposure makes it difficult for vegetation to start.

Flexible, light and easy to stake, CoirMATs install quickly and follow the contours of uneven terrain.

Produit #	Code	Weight	Mesh size	Dimensions	Area/ bundle	Delivery
<b>CoirMAT # 900</b>	# 950-900	913 g/m <sup>2</sup>	10 mm X 7 mm	2 m X 40 m	160 m <sup>2</sup> (2 nets, 80 sq. m./each)	6 bundles /pallet
<b>CoirMAT # 700</b>	# 950-700	718 g/m <sup>2</sup>	12 mm X 10 mm	2 m X 40 m	160 m <sup>2</sup> (2 nets, 80 sq. m./each)	6 bundles /pallet
<b>CoirMAT # 400</b>	# 950-400	420 g/m <sup>2</sup>	20 mm X 20 mm	2 m X 50 m	200 m <sup>2</sup> (2 nets, 100 sq. m./each)	6 bundles /pallet



## CoirMAT # 900 - # 700 - # 400



### Technical data

- **Composition** Coir fibers weaved into sturdy string
- **Durability** 5 years. Then biodegrades into organic matter that enriches the soil.
- **Certification** Approved for biologic agriculture by Ecocert Canada
- **Water retention** 9 times its weight
- **UV resistance** Lasts longer than synthetic materials
- **pH** Neutral (5.5-6.5)



Photo : Les Feuillages du Québec inc

### Installation

CoirMATs and CoirBLANKETs are fastened with wood stakes or metal U-pins (also used for joints) depending on the slope and the nature of the soil.

## CoirBLANKET



CoirBLANKETs are made from coir fibers encased in a photo-degradable polypropylene net. They are used for erosion control on gentle slopes. They allow seeding and stabilize seeds and seedlings.

Code	Weight	Mesh size	Thickness	Dimensions	Area / roll
# 940-9X9	343 g/m <sup>2</sup>	9 mm X 9 mm (Photodegradable netting)	5 mm	2.4 m X 50 m	120 m <sup>2</sup>



Natural coco fiber logs for shores, completely biodegradable and safe for wildlife.



## CoirLOG

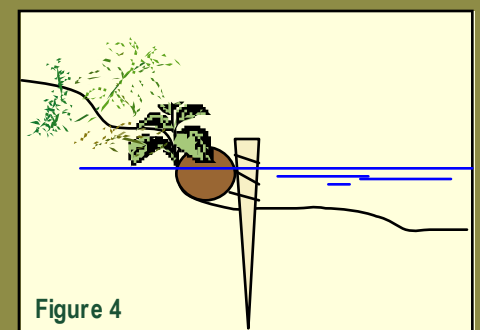
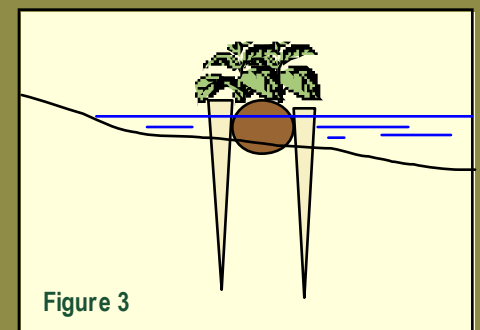
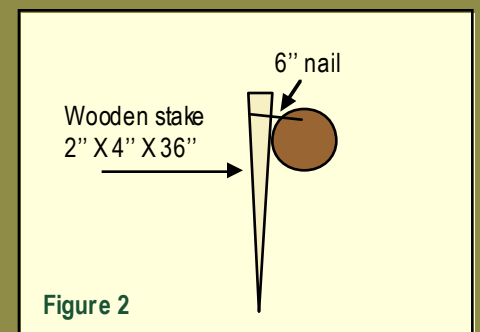
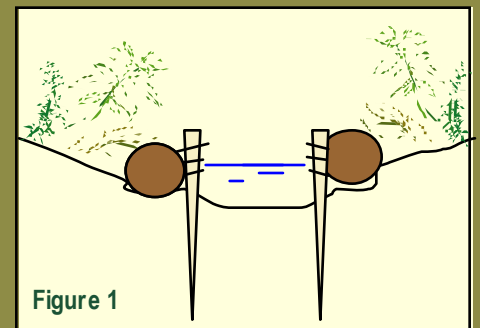
CoirLOGs protect shores from wave action and enable revegetation. They are used in areas where the banks are unstable or affected by contaminated water. They prevent additional erosion.





## Technical data

- Composition      Compressed coconut fibers encased in a CoirMATmesh
- Durability        4 to 5 years. Then biodegrades into organic matter that enriches the soil.
- Length            3 meters (10 feet)
- Diameter         30 cm (12 inches)
- Weight            30 kg (66 lbs)
- Water retention   9 times its dry weight.
- ph                 Neutral (5.5-6.5)
- Buoyant         Yes
- Seeding          Yes, vegetation proliferates in CoirLOGs.
- Flexibility        Supple, can be bent



## Installation

Attach CoirLOGs end to end and place them along the shore. Water should come up to 1/2 to 2/3 of their height (figure 1) if vegetation is to be planted directly in the logs.

Secure CoirLOGs with 2" x 4" x 36" wooden stakes in which a 6 inch nail has been driven through the top (figure 2). The stakes should be spaced 36" (24" if the current is strong). Hold the CoirLOG firmly against the embankment and drive the stake in on the side facing water (figure 1). Put stakes on both sides if the log cannot be braced against the embankment (figure 3). The nail must hold the CoirLOG firmly against the bottom. Attach the log to the stake with string Coir ROPE (See page 11).

Once the CoirLOGs are secured, planting can begin. Use local wetland plants. If the water level is high enough, insert plugs deeply into the log's fibers every 6". If the water level is too low, plant in the surrounding soil. The plants will overtake the CoirLOGs gradually (figure 4).

Note: Stack CoirLOGS to get greater support. Cover the slope of a bank completely where current or wave action is strong. Shores damaged by erosion can be restored with CoirLOGs installed in staggered fashion such as a sloping wall. In time, sediments will accumulate in front of the logs.

# Coconut roll



**No more weeding**



Made of 100% natural compressed coconut fibers.

## Uses

Hedges  
Market gardens  
Biological gardens



## Technical data

- Composition Coconut fibers
- Durability 2-3 years. Then biodegrades into organic matter that enriches the soil.
- Certification Approved for biologic agriculture by Ecocert Canada
- Length 25 feet
- Width 3 feet
- Thickness 1/4"
- Box 1 roll
- pH Neutral (5.5-6.5)
- Pallet 16 rolls
- Product code #401-ROLL

## Coco mulch



Natural soil cover that prevents weeds and gives a unique appearance. A bloc of 8.5 lb, once soaked, provides 2 cubic feet of mulch or the equivalent of a 30lb bag of cedar mulch.

Dimensions: 12" X 12" X 6"  
Weight: 4 kg (8.5lb)  
**# 980-MULCH**

## Coco peat



Replaces peat moss. Coco moss aerates and enriches the soil just like peat moss.

Dimensions: 12" X 12" X 6"  
Weight: 5 kg (11 lb)  
**# 975-PEAT**

Equivalent to a 3.3 cubic feet bag after watering.

# Fasteners

## Fasteners for the installation of

BioDISC • CoirBLANKET • CocoROLL • CoirMAT



### Metal U-pins

<b>Product code</b>	6" (15 cm)....# 430-AN6 8" (20 cm)....# 430-AN8
<b>Composition</b>	Steel, clear finish
<b>Dimensions</b>	Length: 6"....11 g (0.116mm) Length: 8"....11 g (0.116mm)
<b>Qty/box</b>	1,000 pins
<b>Weight/box</b>	6" (15 cm): approx. 40 lbs (18 kg) 8" (20 cm): approx. 60 lbs (27 kg)

Other sizes available on demand.

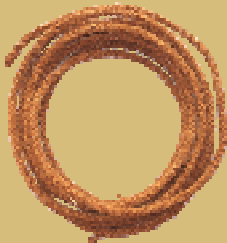


### Metal stake

<b>Product code</b>	# 890-MET6
<b>Composition</b>	Steel, clear finish
<b>Dimensions</b>	Length : 6" (15 cm) Calibre : 9 g (0.144 mm)
<b>Qty/box</b>	1000 units / box
<b>Weight/box</b>	+/- 30 lbs (18 kg)

Other sizes available on demand.

## Biodegradable coir string



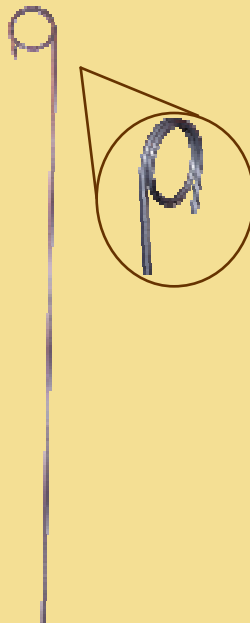
### Cable of fibers of coconut (10 mm)

<b>Product code</b>	# 965-ROPE
<b>Composition</b>	Coir fibers
<b>Length</b>	1,500 ft
<b>Diameter</b>	3/8" (10mm)

### Rope of fibers of coconut (5 mm)

<b>Product code ...</b>	#966-5MM
<b>Composition</b>	Coir fibers
<b>Length .....</b>	5000 pieds
<b>Diameter .....</b>	3-5 mm (3/16")

### Identification stake



Stem made from rust-proof galvanized steel. Sturdy, thus easy to spike. Identify young plants by inserting a label. Reusable.

<b>Product code</b>	# 896-IDE25
<b>Composition</b>	Galvanized steel
<b>Length</b>	25" (64 cm)
<b>Calibre</b>	6 g (0.160 mm)
<b>Box</b>	50 units / box



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