



Agrotextiles



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Accessories



## Coir Mesh™

**CoirMesh™ coir erosion control blankets are open weave, pure coconut, meshes that offer the strongest and most durable natural fibre surface erosion control solutions available. They are therefore recommended on sites where erosion forces/climate are harsh, or plants slow to establish.**

Typical applications for coir meshes include riverbanks and drainage channels (where flow rates and stresses are high); exposed sites such as uplands or coasts; wildflower restoration (because plants require longer to develop); and recreation areas (as abrasion is high).

CoirMesh™ coir erosion control matting effectively controls soil loss and promotes sedimentation; creates a favourable micro climate to promote growth; shelters seedlings against windrock; decomposes slowly to provide prolonged protection; and their high tensile strengths can be utilised to offer temporary soil reinforcement.

A wide range of coir mesh densities, and patterns (including looped piles), are available to provide the ideal balance between surface protection and the requirements of flora.

## Features/Benefits:

- Protects seed and soil from stormwater run off
- Fully biodegradable
- Breaks down in 3-5 years
- Protects seed against birds, animals and footfall traffic
- Adaptable open weave
- Environmentally friendly
- Quick and easy to install
- Strong and robust
- Made from coconut fibres

## Typical Applications

- **CoirMesh™ 400** - holding down turf and heather brashings.
- **CoirMesh™ 700** - general erosion control of banks and slopes.
- **CoirMesh™ 900** - erosion control alongside rivers, streams, swales and run-off ditches.
- **CoirMesh™ Loop 1400** - used in extreme conditions

## Guidance

- We suggest 2.5 pins per m<sup>2</sup> (average soil conditions) rounded up to your nearest 100
- We suggest allowing 10% for wastage and laps

Application Categories: Surface Erosion Control

Hy-Tex (UK) Limited  
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CoirMesh™ 400



CoirMesh™ 700



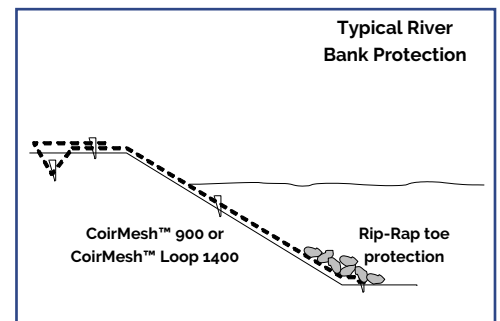
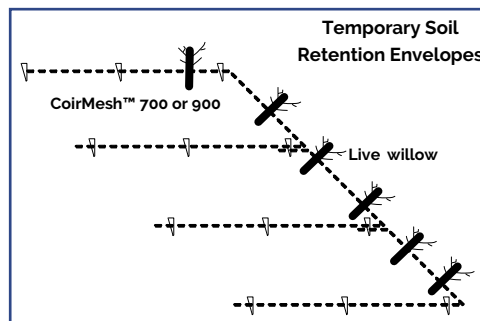
CoirMesh™ 900



CoirMesh™ Loop 1400

Feature	Hy-Tex CoirMesh™			
	400	700	900	Loop 1400
Weight	400g/m <sup>2</sup>	700g/m <sup>2</sup>	900g/m <sup>2</sup>	1,400g/m <sup>2</sup>
Yarn Thickness	4mm	4mm	4mm	4mm
Thread Count (md/cd)	46/40m	110/70m	130/70m	140/80m
Warp Loops (md/cd)	n/a	n/a	n/a	45/38m
Tensile Strength [1]				
Dry (md/cd)	8.9/5.4kN/m	19.6/9.5kN/m	27.8/9.8kN/m	
Wet (md/cd)	6.6/4.2kN/m	15.1/7.2kN/m	21.4/8.8kN/m	
Break Elongation [1]				
Dry (md/cd)	35/30%	51/36%	68/32%	
Wet (md/cd)	47/44%	64/48%	82/49%	
"C" Factor 1.5:1 Slope	n/a	0.003	0.002	
Water Flow Rate	2.40m/sec	3.00m/sec	4.60m/sec	
Aperture	20/25mm	7/15mm	5/15mm	
Open Area	60-65%	40-45%	30-35%	20-25%
Material	Wheel spun, pure, freshwater retted, uniformly twisted woven coir fibre yarn			
Warp Quality	Vycome	Anjengo	Anjengo	Vycome
Weft Quality	Vycome	Aratory	Aratory	Vycome
Manufacturer	Brothers Coir Mills, India			
Pack size	2.00m x 25.00m			

[1] - ASTM 4595



Further specification details, and full installation guides available on request.

**Important Additional Specifier Information**

- 1). Request an Indian G.S.P. Certificate of Origin - this will help confirm source and original destination of material.
- 2). Do not accept non-Indian material - other countries also manufacture coir meshes but generally the standard is not as high.
- 3). Do not accept lower yarn qualities - they are weaker and degrade sooner.
- 4). Due to the high general demand for coir fibre, some manufacturers use cheaper mechanical, or chemical, processing methods which can produce poorly graded, weaker, and potentially contaminated yarn fibre.

For reliable performance coir geotextile yarns should be made using the traditional method of retting ripe coconut husks in freshwater for up to six months. This retting process cures the coconut fibre - increasing UV resistance, durability, water retention and flexibility without causing deterioration. The fibre is then separated from the husks and sorted into grades by skilled labour.

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