

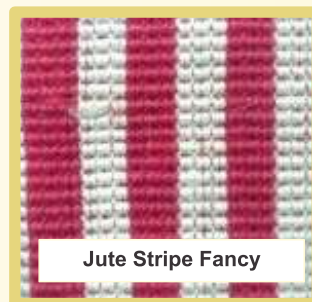


META CLASSICS FIBRES

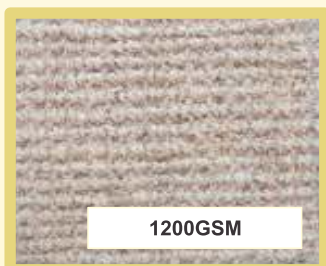
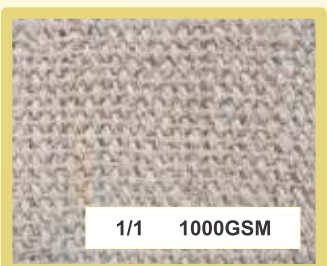


COIR LOGS | COIR GEO TEXTILES | COIR NEEDLE FELT

Various Types of Mattings



Various Types of Mattings



Coir Geotextiles “THE FABRIC THAT PROTECTS”

Any material used for improving the soil behavior, preventing soil erosion and help consolidation of the soil can be termed as geotextiles. Geotextile is a woven / non woven knitted structure of natural textile fibre used in various geo technical, civil engineering and soil conservation applications.

Coir geotextiles are of different types the two main geo textiles made from coir:

- ◆ woven geotextiles
- ◆ Non - woven geotextiles

Woven Geotextiles

Three types of woven geotextiles are currently being manufactured .(a). Coir mesh matting of two shaft view (b) Coir woven fabrics with loop construction .(c) Coir bags made with latex backed coir matting. Coir mesh matting of different mesh sizes are most established coir textiles. Mesh matting having different specifications are available under quality code numbers H2M1 to H2M10. These qualities represents coir textiles of different mesh sizes ranging from 1/8” to 1”. The selection of geotextiles for a particular slope depends upon the type of slope, soil condition and vegetation. If the slope is steep, the mesh size will be closer. The decorticated fibre/bristle fibre spun on machines can also be woven as geotextiles. Since color of yarn is not a criteria for geotextiles applications, the brown can be better utilized to produce coir geotextiles at a cheaper rate. This will pave way for manufacture of value added products from brown fibre.



Coir Geotextiles offer:

- ◆ 100% Natural fibre, extracted from coconut husk
- ◆ Adds organic material to soil
- ◆ Promotes vegetative growth
- ◆ 100% Bio-degradable and environmentally friendly
- ◆ Tough, durable, versatile and resilient
- ◆ High tear-strength resistance
- ◆ Easy to install / maintain / Patch-up.
- ◆ Follows the contour of the soil surface.
- ◆ Hygroscopic properties
(absorbing or attracting moisture from the air)
- ◆ High tensile strength

Our clients can avail from us high quality Coir Textiles (400GSM). These are qualitatively superior and can be customized as per the specifications of our clients.

Features:

- ◆ Roll form load ability 40'HC 15000 square meters
- ◆ Compressed Bale form load ability 40'HC 18000 square meters

We are engaged in offering Coir Geo Textiles (700 GSM & 740 GSM). This is made from high quality raw materials and cutting edge technology as per the defined industry norms, which ensure product durability.

Features:

- ◆ Roll the load ability 40'HC 11000square meters
- ◆ Compressed Bale form load ability 40'HC 15000 square meters

Coir Textiles (400 GSM)



Coir Textiles (700 GSM)



Coir geotextiles-the natural erosion controller

Coir geotextiles are classified as woven, meshes, nets and non woven, as the blanket held by coir threads.

Coir geotextiles nets have varying densities depending on their application, but as a whole they serve as slope stabilization agents prior to revegetation.

Coir geotextiles promote new vegetation by absorbing water and preventing top soil from drying out. Coir geotextiles absorb solar radiation just like natural soil and unlike geosynthetic materials, it provides good soil support for up to three years, allowing natural vegetation to become established

The greater the geotextile density, the steeper the embankments it can be utilized on Applications have included ski slopes and bottom reinforcing material in water courses. (Under water the degradation of coir is slower).

Over a period of time, coir which is ecofriendly and biodegradable, completely disintegrates leaving only humus.



The world over, the cause for concern in degradation of the environment. And thanks to mindless deforestation, the single biggest factor that destabilizes the environment and even brings about devastating climatic changes in the erosion of soil.

But there is hope yet for us all and it comes in the shape of Coir Fibre. Woven into small and large sized meshes, depending on the nature of the soil, the degree of precipitation etc, this wonder product prevents soil erosion. Effectively keeping the soil in place through the heaviest of rains, gradually promoting the growth of vegetation over the years and finally, being biodegradable, disintegrating into the soil harmlessly.

Its efficiency has been put to test in the most demanding environments across the world.

Use of Coir Geotextiles

Slope Stabilization

Soil erosion control

River embankment protection

Stabilization of watershed

Protecting the sides of ponds

Construction of bunds

Construction of roads

Functioning

Coir geotextiles, being biodegradable offers sustainable and cost effective solution for numerous soil erosion control related issues.

Coir geotextiles once laid will prevent the erosion of the soil with each mesh acting as check dams. Besides this each mesh will also act as a green hoses facilitating the permission of feeds/routing of saplings. Once the vegetation takes its routes it will take care of holding the soil together and just prevents soil erosion. Once the routing of vegetation is complete the function of the Coir geotextiles is over and the same will biodegrade itself into soil, with our posing environmental issues.

Advantage of Meta classics

Pioneer in the field

20 Geotextiles manufacturing units with more than 40 looms

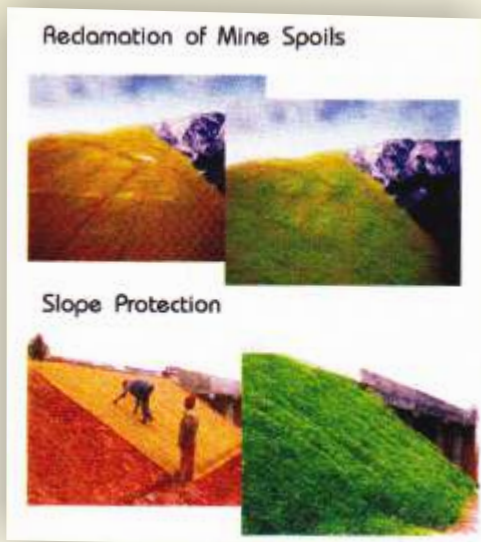
Expertise in all application areas

Well trained work force

|Supervisors - 5, Skilled Workers - 80.

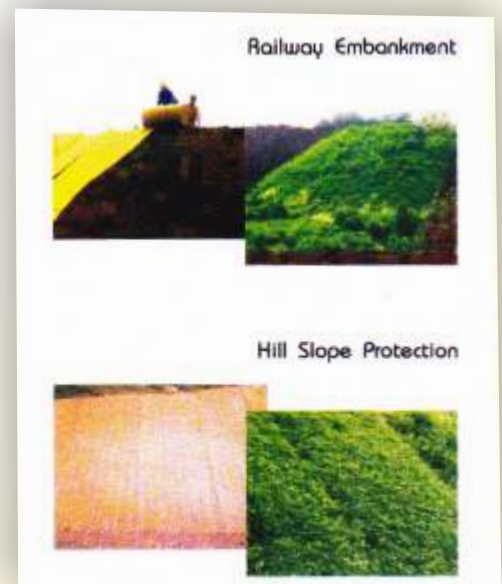


Wherever the earth is denuded of vegetation, some sort of covering has to be provided to prevent soil erosion due to rain or wind. This cover is called geotextile. In the early periods reeds, bamboo, wood and animal hide were used to bind soil. Now synthetic materials like polyester, polyamide, polypropylene and polyethylene are mainly used as geotextiles for civil engineering applications. The share of natural geotextiles is a mere 5% in the market. In an age of growing environmental awareness, synthetic geotextiles have some disadvantages. Since the synthetic geotextiles are not biodegradable, they cause soil pollution. Further, their production processes cause air and water pollution. Hence the search for a suitable natural geotextile.



Here coir is the sure winner. Experimental studies have proved that while cotton and jute degrade within six months, coir geotextiles provide good support on slopes for about 5 years. It is resistant to saline water. Its greatest advantage is that it provides an ecological niche for a rapid re-establishment of the vegetation cover. Coir resembles natural soil in its capacity to absorb solar radiation. This means that there is no risk of excessive heating as happens sometimes in the case of synthetics.

All these experiments were successful and coir geotextiles were identified as ideal material for preventing soil erosion. Recently geotextile applications were successfully carried out for the protection of mud-bunds in the water-logged Kuttanad in Kerala India.



COIR NEEDLE FELT MAT

Coir needled felts are non-woven fabric made out of 100% coir fibre. The fabric is composed of coir fibre randomly needle punched to the desired degree of compaction. The needled felts have excellent moisture absorption and retention characteristics and form an ideal medium for plant growth. The fibre is mechanically bonded or interlocked to form a continuous length of sheet. No bonding material is used in the manufacture process.



- Needle felt with latex
- Needle felt without latex
- Needle felt without latex with one side jute net backed
- Needle felt without latex with one side cotton net backed

Coir Needle Felt

		20feet	40feet
Coir felt with Latex	600gsm 2mx25m	3000m ²	6500m ²
Coir felt with Latex	1000gsm 2mx25m	2500m ²	5400m ²
Coir Felt without Latex	1000gsm 2mx25m	1750m ²	3790m ²

Geotextiles

	20feet	40feet
400gm/m ²	6000m ²	12000m ²
700gm/m ²	5000m ²	10000m ²
900gm/m ²	4500 m ²	9000m ²

Coir log	20feet	40feet
9" x 20' Dia	125rolls	250rolls
rolls12"x20'Dia	70rolls	140rolls
16" x20' Dia	42rolls	84 rolls
20"x20'Dia	25rolls	50rolls

Photo Gallery







META CLASSICS FIBRES

An ISO 9001:2008 Certified Company

Varanam P.O., Puthanangadi. Cherthala.
Allepey, Kerala, India. PIN - 688 555
Tel: 0478 2583 894. 9447457558, 8138077990
www.mcfibres.com, www.mcfibres.info
e.mail: mcfibres@gmail.com