

EURO-TEXTILE C400



PRODUCT DESCRIPTION

Reinforcement Geo-net, open mesh, uses as base product the vegetal fibres obtained from the fibres of coconut shells (coir).

The degree of lignin content held by the fibre used, defines its level of resistance against microbiological activity (biodegradability).

EURO-TEXTILE C 400 is produced according to the ISO 9001 standard as well as the international "COIR BOARD" H2M6 regulation that guarantees the way in which the fibres are obtained, a standardized production process as well as the geographic origin of it (South India - Kerala).

EURO-TEXTILE C 400 is generally used in Green- and Bio-engineering and Habitat Creation as a stand-alone product, or in combination with other living plant material (like stolons, branches, plants), inert materials (like logs, wattles), or in combination with hydromulching*.

* In order to learn more about this, please visit the 'European Hydroseeding Guide' (currently only available in French) on our site www.euro-tec.fr



ACTION FIELDS

This reinforcement geo-net, woven with open mesh, is active on 3 levels :

Fights erosion and "temporarily" reinforcement of the longer term (> 3 years < 7 years):

The tensile strength and elongation level of the product improves the mechanical resistance of an earth mass (slope or bank). In order to define the product lay-out and dimensions, various approaches can be taken, often it is done empirically based. In any case it should be done by an experienced engineering office.

Acts like a sediment filter, allow drainage:

Here the geo-textile needs to fulfil 2 opposing conditions : retain soil particles and let pass through water. Mainly the level of permeability needed will define the type of geo-textile to be used, in relation to the soil parameters like particle size, but also soil compactness and permeability.

Encourage vegetation:

Thanks to the retention capacities of natural fibre, vegetation can develop in a "controlled" environment, where temperature and hydro stress are "controlled" by buffering temperature peaks and limiting evaporation & transpiration.

SPECIFICATIONS & PERFORMANCE

Fibre Type	100 % Coco fibre
Origin	India
Mesh (number of tensiles per dcm ²)	4 x 4
Weight (gr/m ²)	400
Lignin Level of fibre used in %**12% for jute, < 10% for fibre obtained from foliage	46
Mesh permeability in %	64
Tensile strength (following ASTM D4595-86) Length (kN/m) Cross (kN/m)	4.48 4.75
Elongation (following ASTM D4595-86) Length (kN/m) Cross (kN/m)	30.74 32.04
Reinforcing capacity (resistance)	☹️
Resistance to microbiological activity (biodegradability)	☹️
Fine sediment retaining capacity	☹️
Vegetation establishment capability	☹️

APPLICATIONS

Erosion Control linked to the objective of establishing vegetation.
Riverbanks, canals or inland waterways that are exposed to hydraulic erosion
Hydraulic sites or torrents that are particularly exposed to turbulent streams
Coastal sites that are exposed to maritime and wind erosion
Slopes, banks or flat areas exposed to rain-erosion

PACKAGING

Cross width : 2m - 3m - 4m
Length : 25 or 50 ml
Available in bales or rolls.