



The miracles of science™

DUPONT™ PLANTEX® COCOMAT

Erosion and weed control in a single fabric

DuPont™ Plantex® Cocomat has been designed to provide erosion and weed control in new embankment slopes applications during the first phases of plant growth until planting can take over the function of erosion control.

www.plantexpro.dupont.com



PRODUCT

An aesthetic, natural-looking fabric offering weed and erosion control in a single fabric.

Consists of DuPont™ Plantex® weed control fabric covered with a layer of untreated coconut fibres. The coconut fibres are stitched together between two polypropylene meshes, and then hot-melt-glued to the Plantex® fabric without any risk of destroying the functionality of the weed control barrier.

ADVANTAGES

- Immediate protection against wind / water erosion and weed control in a single fabric
- Natural look of product
- Prevents drying out of the soil
- Water, air and nutrient permeable
- Recyclable

LIFETIME

The coconut fibres will change the color from brown to grey in 1 to 2 years. This is not an indication of fibre degradation.

If exposed to the sun, it may maintain performance up to 3-5 years, typically sufficient to protect plants during their initial growth period from erosion and weeds. Over time, the rotting of the coco fibres contributes to humus soil creation.

If the growing area provides shading, this can enhance the weed and erosion control performance period.

APPLICATION

Designed for erosion control in slopes applications where mulch or wood chips struggle to remain in place and therefore have problems to protect the plant growth against erosion.

Suitable for embankment slopes with up to 60° providing the adequate fixation at regular intervals.



- Slope greening
- Boulders or rock embankments
- Landscaping
- Shore areas of water basins, storage ponds, sewage basins, lakes, etc.
- Traffic infrastructures
- Fruit and vegetable growing, prevents contact to ground
- Landfill sites



DIMENSIONS

1.2 m x 22.5 m

2.4 m x 22.5 m

TECHNICAL CHARACTERISTICS

Property	Norm	Value
Material		Plantex [®] with a layer of 100% coconut fibres in PP monofilament knit
Basisweight	EN ISO 9864	540 g/m ²
Thickness	EN ISO 9863-1	6.0 mm
Tensile strength	EN ISO 10319	5.0 kN/m
Elongation	EN ISO 10319	40%
Tear strength	ASTM D4533	220 N
Air permeability	ASTM D737	96 m ³ /m ² /min

INSTALLATION

The installation of DuPont™ Plantex[®] Cocomat is quick and easy, we recommend the following instructions. The material can be cut into the required dimensions by scissors or cutters. When the installation is complete, the plants can be planted by simple cross cutting into DuPont™ Plantex[®] Cocomat.

If used for erosion control in slopes applications, the plant growth is critical to the erosion protection performance of the fabric. It is therefore recommended to place the fabric in spring or summer during the vegetation period. It is crucial to ensure the fabric is laid down and fixed properly on the soil (good contact) to avoid a flushing and protect the vegetation.



1) Prepare the soil, remove existing weed and level the soil if necessary. Unroll Plantex[®] Cocomat on the soil.



2) Fix Plantex[®] Cocomat with pins, if using several runs, overlap at least 10 cm. It is recommended to place the overlap against the wind direction. Fabric shall be fixed at embankment foot and crown. If used on steep slopes, fabric shall also be fixed at regular intervals using adequate fixing pins.



DuPont™ Plantex® Cocomat - Tested weed control performance

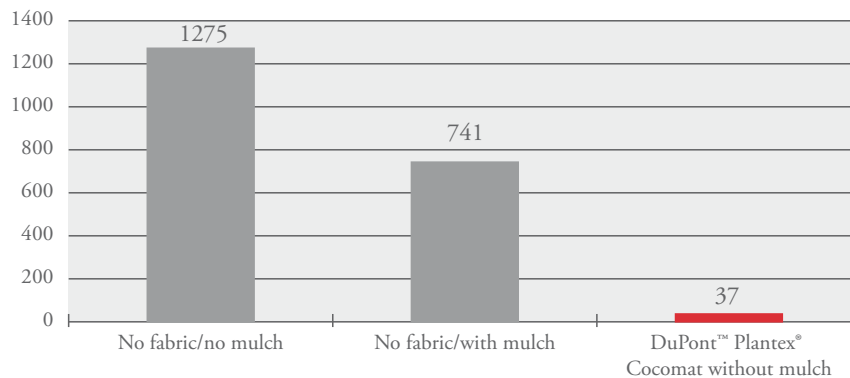
At the company's experimental farm station in Nambenheim, France, DuPont has undertaken rigorous testing of DuPont™ Plantex® Cocomat in controlled glasshouse conditions using *Alopecurus myosuroides* (Engl. Blackgrass or Slender Foxtail) to evaluate the fabric's performance in application.

Test parameters: ~1,700 seeds/testbox, ~14,000 seeds/m²

Growth results after 5 weeks.



Germinated blackgrass seedlings through fabric after 5 weeks,
Test result applied to a surface of 1m²



More detailed information on the test is available upon request.

Source: DuPont, 2010

Product safety information is available upon request. This information corresponds to our current knowledge on the subject. It is offered solely to provide possible suggestions for your own experimentation. It is not intended, however, to substitute for any testing you may need to conduct to determine for yourself the suitability of our products for your particular purposes. This information may be subject to revision as new knowledge and experience becomes available. Since we cannot anticipate all variations in actual end-use conditions, DuPont makes no warranties and assumes no liability in connection with any use of this information. Nothing in this publication is to be considered as a license to operate under or a recommendation to infringe any patent right.

For further information on products and installation, visit our website:

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