

Product Description

Jutemaster® Thick Mat (TM) is a needlepunched jute matting with hessian scrim designed to prevent soil erosion and retain moisture whilst promoting selective plant growth and stability. The material may be slitted to enable vegetation to be planted. The colour is light brown and fades over time when exposed to sunlight. For more information on physical properties and material safety data please refer to the Jutemaster® Material Safety Data Sheet.

Applications

Weed Barrier

Jutemaster® TM is highly recommended as a weed barrier by preventing weed growth while planted vegetation is establishing. Its densely matted characteristic prevents light passage and suppresses unwanted broadleaf weed growth as well as most narrowleaf plants.

Erosion Control

Jutemaster® TM protects exposed soils on slopes of up to 1:1 grades from erosion for up to 18 months.

Evapotranspiration Control

Jutemaster® TM greatly reduces soil moisture loss through evapotranspiration and becomes heavy when wet, conforming to the contours of the ground.

Mulches

Jutemaster® TM acts as a roll-on mulch, adding organic matter to the soil as it breaks down. It also encourages worm and microbial activity in the soil, aiding soil conditioning and nitrogen fixation.

Physical Characteristics and Standard Dimensions

Product Weight: 560 – 680g/m²
Product Thickness: 6 ± 1 mm

ROLLS

Length (m)	Width (m)	Number of slits per m ²	Weight Per Roll (kg)	Area Per Roll (m ²)	Number Per Pack
25	1.83	0	28.4	45.8	1
25	1.83	4	28.4	45.8	1
25	1.83	6	28.4	45.8	1
25	0.915	0	14.2	22.9	2

SQUARES

Length (m)	Width (m)	Number of slits	Weight Per Square (kg)	Area Per Square (m ²)	Number Per Pack
0.60	0.60	4	0.22	0.36	100
0.37	0.37	4	0.09	0.14	100

Non-standard sizes can be manufactured to order upon request.
For more information please call 1300 554 424 or your UBF representative.

Performance Details

Results obtained from tests conducted by the Soil Conservation Research branch of the Queensland Department of Primary Industries. Prepared compacted soil plots of varying slope gradients were covered by Jutemaster® TM. These plots and a control set with bare soil were subjected to low and high rain intensities, 65mm/h for 30 minutes and 130mm/h for 15 minutes respectively. Variables such as water runoff, soil erosion and wetting depth were measured.

Water Runoff as a Percentage of Total Rainfall

Slope Gradient	Percentage Runoff from Bare Soil (No Cover)		Percentage Runoff from Jutemaster® TM Covered Soil	
	Low Intensity Rainfall	High Intensity Rainfall	Low Intensity Rainfall	High Intensity Rainfall
10:1	33	52	7	3
4:1	23	42	6	2
3:1	20	39	8	5

Soil Concentration in Water Runoff

Slope Gradient	Soil Concentration in Runoff from Bare Soil (No Cover), g/l		Soil Concentration in Runoff from Jutemaster® TM Covered Soil, g/l	
	Low Intensity Rainfall	High Intensity Rainfall	Low Intensity Rainfall	High Intensity Rainfall
10:1	12.5	154.6	0	0
4:1	51.1	236.3	0	0
3:1	60.8	253.5	0	0

Soil Wetting Depth

Slope Gradient	Soil Wetting Depth through Bare Soil (No Cover), mm		Soil Wetting Depth through Jutemaster® TM Covered Soil, mm	
	Low Intensity Rainfall	High Intensity Rainfall	Low Intensity Rainfall	High Intensity Rainfall
10:1	50	40	75+	75+
4:1	50	45	75+	75+
3:1	50	50	75+	75+

75+ = completely saturated

How to Specify

The geotextile material shall be Jutemaster® Thick Mat as manufactured by United Bonded Fabrics. Please specify product dimensions required.

General Installation Advice

Ground and Soil Preparation:

Preliminary weed control is essential before installation. Where required, earthmoving apparatus should be used leaving the slope with a surface as even as possible, removing all large obstructions, stumps etc. Rake evenly over the soil to achieve desired shape.

Fixing Techniques (Rolls):

Roll Jutemaster® TM down the slope with an overlap of 75 – 100mm. Dig a 150mm deep trench along the top of the bank to divert surface water. Pin extremities at 250mm intervals as well as 2 – 3 'infill' pins every square metre. Do not pull the matting taut; allow it to conform to the soil contours.

Fixing Techniques (Squares):

If the seedling being planted through the central slit is being guarded then utilise the three surrounding slits to accommodate support stakes. Otherwise pin each corner of the square.

Post Installation:

Regular watering to maintain soil moisture for plant growth is recommended.

FOR FURTHER INFORMATION OR AN MSDS, CALL 1800 554 424 OR E-MAIL customer@unitedbonded.com.au

In most cases testing has been conducted in a laboratory situation under controlled conditions. Site-measured performance may vary due to installation quality and site conditions. As these products are subject to constant research and development, we reserve the right to update the contents without notice. Recommendations regarding the use of products are to be taken as a guide only, and the purchaser should independently determine the suitability of a product for the intended application. The Jutemaster® TM range of geotextiles are protected in Australia by Patent 657819.
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