

# TECHNICAL DATASHEET

# TECHMAT CB3D

## PRODUCT DESCRIPTION

Techmat CB3D is a 100 % coir blanket reinforced on upper side with a corrugated Polypropylene mesh. The Techmat CB3D coir blanket provides immediate erosion and evaporation protection.

The high tensile strength three-dimensional structure gives permanent support to the root growth of the new vegetation. Offering 100% soil coverage when laid in accordance with the installation guidelines. The coir strands degrade over time leaving a PP matrix that intertwines with the root zone offering reinforcement to the area permanently.



| CHARACTERISTICS           | STANDARD             | UNIT             | VALUE     |
|---------------------------|----------------------|------------------|-----------|
| MASS PER UNIT             | ASTM D 6566          | g/m <sup>2</sup> | 355-370   |
| THICKNESS                 | ASTM D 6525          | mm               | 12.0-13.0 |
| RESILIENCE                | ASTM D 6524          | %                | 90        |
| DENSITY                   | ASTM D 792, METHOD A | g/m <sup>3</sup> | 0.917     |
| TENSILE STRENGTH MD       | ASTM D 6818          | kN/m             | 10.2      |
| TENSILE STRENGTH CD       | ASTM D 6818          | kN/m             | 8.7       |
| ELONGATION AT BREAK MD    | ASTM D 6818          | %                | 45.3      |
| ELONGATION AT BREAK CD    | ASTM D 6818          | %                | 19.5      |
| FLOW VELOCITY UNVEGETATED | ASTM D6460           | m/s              | 3.2       |
| VEGETATED                 | ASTM D6460           | m/s              | 6.0       |
| WIDTH                     | ISO 12956            | m                | 2         |
| LENGTH                    | ISO 11058            | m                | 20        |
| AREA                      | ISO 12956            | m <sup>2</sup>   | 40        |

## BENEFITS

- Promotes vegetation growth
- Adds organic material to insert soils
- Water absorption in low rain areas
- Mulching effect-Prevents topsoil from drying out
- 100% natural biodegradable fibres
- High tensile strength
- High tear resistance
- Easy to install
- Follows the contours of the soil surface
- Degrades over 2 to 5 years

## TYPICAL APPLICATIONS

- Erosion Control
- Re-Vegetation
- Stream Bank Stabilization
- Soil Erosion Control
- River Embankments
- Landscaping

## INSTALLATION

**Vegetation Establishment** - Seeding can be undertaken prior to blanket installation and seedlings can grow up through the blanket. Alternatively seeding can undertake after installation and sown on to the blanket.

Hydro seeding is also an effective seed application method over large areas and will provide further support for vegetation growth. Wildflower and aquatic plants and shrubs can be inserted through the coir mesh after installation and the blanket will provide support to vegetation establishment.

**Overlapping and Anchorage** –Sufficient overlap and anchorage is the key to the success of erosion control blanket products. Trenches at the top and bottom of the slope must be back filled and pegged to ensure good anchorage.

1. TCS Geotechnics is a trading name of Technical Civils Solutions Ltd.
2. TCS Geotechnics Ltd reserves the right to alter product specifications without prior notice.
3. It is the responsibility of all users to satisfy themselves that the above data is current.
4. The above figures are average values obtained from testing to current standards.
5. TCS Ltd cannot accept responsibility for the performance of these products as the conditions of use are beyond our control.
6. Installation details are available on request.

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