



Product Data Sheet: SiltMat

SiltMat captures over 40kg of sediment per mat



Proven in the field to reduce downstream levels of suspended solids

4 easy steps to using SiltMat

Use our reference table (overleaf) to judge optimal placement. As a rule of thumb, SiltMat is best placed in areas where stream energy is reduced and natural deposition takes place.



SiltMat is unfolded and orientated to cover the width of the channel. The edges of silt mat can be overlaid without gaps. Mats are staked in place or weighted with local material.



SiltMat will trap large amounts of sediment. Stakes or weights are removed and the mats rolled up ready for disposal.



With correct permission SiltMat can be seeded and left on site, creating an environmental enhancement and avoiding disposal costs.

SiltMat is a fully biodegradable mat that captures and prevents sediment resuspension.

The mats can be placed in natural or artificial channels, ditches or directly on land to trap suspended sediments.

SiltMat can be orientated sideways or lengthways and fits into all channel types.

SiltMats are mainly used to manage sediment release to watercourses from construction sites.

Applications

1. Drainage from construction sites
2. River restoration and maintenance operations
3. Used in artificial dispersion fields
4. Forestry and agricultural operations
5. Runoff attenuation features
6. Can be used as a planned or reactive sediment control measure

Technical information

Product Name: SiltMat

Dimensions: 2 x 1 x 0.12 metres

Dry Weight: 10kg per mat

Application: trapping suspended solids, improving water clarity and preventing resuspension of sediment

Material used: coir (80%) jute (20%) all sustainably sourced natural materials

Delivery: mats are delivered in bundles of 5 covering 10 square metres

Disposal: SiltMat is fully biodegradable, with correct permissions used mats can be disposed of to land.

Deployment: The table below offers a guide to settlement distances for different particle sizes. Select locations where stream energy is reduced and natural deposition takes place.

Effectiveness: SiltMat collected over 20kg of sediment per m² in a series of independently designed and monitored field tests during 2016

Reference table showing the distance that different particle sizes travel at differing water velocities

Particle Size	Water Speed (m/s)				
	0.2	0.4	0.6	0.8	1
Fine Gravel	20 cm	40 cm	60 cm	80 cm	1 m
Sand	70 cm	1.4 m	2.1 m	2.8 m	3.5 m
Fine Sand	8 m	17 m	25 m	33 m	40 m
Silt	228 m	456 m	683 m	911 m	1139 m



Each SiltMat can capture 40kg of sediment



10 SiltMats are delivered per pallet (20m²)



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