



Sedimat™ - The Original Silt Matting

Sedimats™ are used in waterways during in-stream construction activities (such as pipe laying or dredging) to trap disturbed sediment that may pollute aquatic habitats downstream.

They are simple, yet effective, biodegradable mats, which are fixed to the stream bed, and do not impede water flow.

Sedimat™ is an effective tool for the protection of streams from sedimentation damage during in stream construction activities such as utility installation, culvert replacements, ditch maintenance, and bridge work. They are flat pads, which are available in a variety of sizes, that are laid singly or in multiples on the streambed immediately downstream of the works.

Sedimat™ can also be used in temporary channels to control pollution from pumped dirty water.

Sedimat™ mats are easy to store, handle and transport. They can be installed on a streambed using either stones or stakes and can be placed in any configuration, or number, to provide desired coverage. They may be used alone or in conjunction with other methods of stream protection such as coffer dams, culverts or silt screens.

Since their UK launch by us in 1996, Sedimat™ has been used extensively throughout the country on a diverse range of projects.

Now available in "Original" (wood wool fill and jute mesh top) and "C" (coir fibre fill and coir mesh top) versions to satisfy the continually growth in demand.

Features/Benefits:

- Over 30 years of proven performance
- Traps sediment before it can pollute waterways
- Fully biodegradable
- Made from natural materials
- Easy to handle
- Secondary application - can be used to stabilise banks
- Extensive field trials in America by The New York State Electric and Gas Corporation.
- Can trap up to 250kg of sediment (1.20 x 3.00m mat)

Feature	Sedimat™ "Original"	Sedimat™ "C"
Function	Designed to trap harmful disturbed sediment by promoting settlement	
Applications	Reservoirs, lakes, canals, rivers, streams, wetlands and temporary channels	
Material	Hessian base, wood wool fill, and jute mesh topped mat. With or without timber support posts.	Hessian base, coir fibre fill, and coir mesh topped mat. With incorporated carrying straps.
Sizes and Dry Weights	1.20 x 0.80m (3 kg)	1.00 x 2.00m (7 kg)
	1.20 x 1.20m (5 kg)	1.20 x 0.80m (4 kg)
	1.20 x 2.00m (10 kg)	1.20 x 1.20m (5 kg)
	1.20 x 3.00m (11 kg)	1.20 x 3.00m (13 kg)



International Erosion Control Association
Award Winner

Application Categories: Sediment Pollution Control

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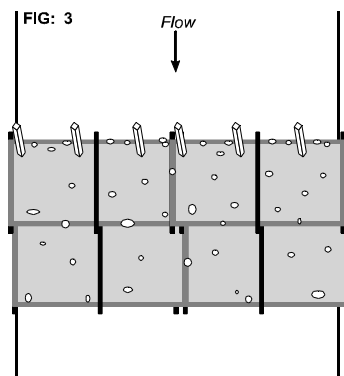
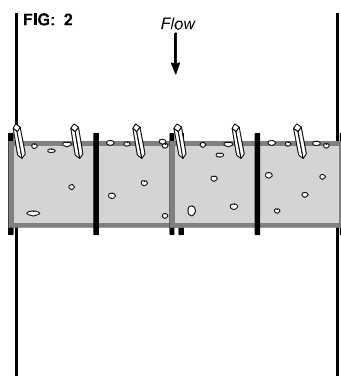
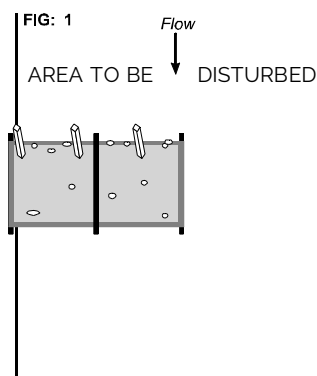


Sedimat™ Coverage Guidelines (1.20m x 3.00m)

Sedimats™ are easy to apply in a variety of situations in both natural & artificial channels once the guidelines are understood.

Minimum Length of Down Stream Coverage Suggested

Water Velocity	0-0.3m/s	0.3-0.6m/s	0.6-0.9m/s	>0.9m/s
Fines mostly sand	1.20m	2.40m	3.60m	>5.00m
Fines mostly silt and clay	2.40m	4.80m	7.20m	>10.00m



	Guidelines	Comments
LOCATION	a). The mats must be installed downstream of the area to be disturbed, and should be placed as close as possible to the works area without causing disruption.	<i>The mats are at their most effective when encountering sediment directly after it is disturbed - as the sediment travels downstream it becomes more dispersed in the water. However, if the current immediately below the work area is so fast and turbulent that sediment may be transported right over the mats then they can be positioned downstream at the first slow spot.</i>
INSTALLATION	a). Before works begin, and starting at the position furthest up-stream, unroll and stretch out the mats then submerge them in the water at right angles to the flow.	<i>The mats can be unrolled across or down the channel to provide any length/width of coverage.</i>
	b). Secure up-stream edges with sufficient stones/stakes to prevent lift by the current. If required, add further stones/stakes to ensure the mats lay flat on the stream bed and will not be displaced (Fig: 1)	<i>Where currents are/may be strong, or if the mats will be installed for a long time, it is advisable to use stakes. It is important the current is not allowed to flow under the mats. Avoid covering too much of the mat with stones (accumulating silt will act as an anchor).</i>
	c). Where several mats are required to cover the channel width, lap the sides (Fig: 2)	<i>The full width of the channel should be protected unless there is a specific reason.</i>
	d). Where more than one row is required, tuck the up-stream edges under the preceding mats (Fig:3)	<i>Refer to coverage guidelines</i>
REMOVAL	a). It is important to regularly check if the mats are full. Feel/Look for the presence of sediment lying on top of the downstream edge of the mat.	<i>When the mats are full they must be replaced or more added to the downstream end of the existing mats.</i>
	b). When construction activities are complete, or the mats full, they can easily be removed either by rolling them into a machinery bucket or dragging them onto the bank.	<i>The mats are capable of trapping in excess of 250kg of sediment so will require machinery removal when heavily laden. When being removed there is often slight leakage, if this is not acceptable then mats should be temporarily installed downstream to trap this.</i>
	c). If required, the mats can then be unrolled, secured to the bank (with fixing)	<i>The sediment laden biodegradable mats provide instant surface stabilisation and a rich seedbed for vegetation restoration, thereby avoiding disposal problems. If desired the support stays can easily be cut free for re-use or disposal.</i>

WARNING - ENSURE YOU PLAN AHEAD FOR REMOVAL OF MATS AS THEY WILL BE HEAVILY LADEN WITH SILT

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