

Hy-Tex Sedimat™ Sediment Entrapment Mats

Sedimat™ installed using stones



Sedimat™ prior to installation



Silt laden Sedimat™ being removed



Trapped silt in Sedimat™



**International
Erosion Control
Association
Award Winner**



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Hy-Tex (UK) Limited

Committed to Quality, Value & Service

Hy-Tex Sedimat™ Sediment Entrapment Mats

Sedimat™ installed using stones



Sedimat™ installed using stakes



Disturbed sediment entering Sedimat™



Used Sedimats™ fixed to bank



Grass roots binding to soil



Waterway Sedimentation Downstream sedimentation of waterways is a significant problem common to a wide range of in-stream activities, and from site run-off.

Civil engineering projects, drainage works, ditch maintenance, temporary fords and flood alleviation schemes can all release large pulses of sediment which drift downstream.

Impact on Waterways Sediments can reduce, or destabilise, channel cross-sections, interfere with drainage, block culvert, and upset natural or desired hydrology.

Impact on the Environment Sediments can smother fish spawning areas, choke out aquatic insects, reduce pool volumes, and harm aquatic vegetation.

The Solution Sedimat™, a patented product, is a simple, yet effective, mat designed to trap harmful disturbed sediment by promoting settlement.

Sedimats™ are flat 1.20 x 3.00m pads which are fixed on the stream bed immediately downstream of the site about to be disturbed.

They are constructed from layers of biodegradable materials, secured to wooden stays to help maintain their form in the current and facilitate removal.

Trap Harmful Disturbed Sediment During in-stream activities, disturbed sediment is pushed along the stream bed by the current until it reaches the mats. Sediment then filters down through the mat layers and is trapped inside.

Each Sedimat™ is capable of trapping in excess of 250kg of sediment. Because they lay flat on the bed the mats are not affected by the current and do not cause back up of water.

Easy to Handle, Install and Remove The mats are packaged individually in rolls which are simple to store, handle and transport.

They are secured flat on the stream bed, with either stones or driven-in stakes. Placed immediately downstream of the area to be disturbed, arranged in sufficient numbers to cover the stream bed, just before work begins.

Provide Useful Bank Stabilisation When the mats are full, or construction activities complete, they can easily be removed either by rolling them into a machinery bucket or dragging them onto the bank.

The fully biodegradable, sediment laden mats can then be unrolled, fixed to the embankment and seeded to provide instant bank stabilisation, a rich seedbed for vegetation restoration, and avoid disposal problems.

Field Trials Sedimats™ were developed by fisheries biologists at the New York State Electric and Gas Corporation, and put through an extensive set of field trials under the review of the New York State environmental and transport agencies.

These trials were conducted in a wide variety of streams across the State, from tiny, slow running rivulets less than 1.50m wide to swift and turbulent streams more than 24.00m across.

Regardless of conditions, the result was the same. Sediment mats effectively trapped large volumes of sediment, on average more than 80% of the amount disturbed.

In a State noted for stringent environmental protection standards, Sedimats™ are now fully approved and in some situations are mandatory.

In 1996 Sedimats™ won an International Erosion Control Association award.

Since their introduction into Britain they have gained wide acceptance by environmental consultants, and are now extensively used by the Environment Agency and many contractors on a variety of waterway related projects.

Please consult installation guidelines for further assistance.

FURTHER INFORMATION, AND A VIDEO/DVD, AVAILABLE ON REQUEST

Sedimat™ technology is protected throughout Europe under patent no. 93114 349.9-1255.

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