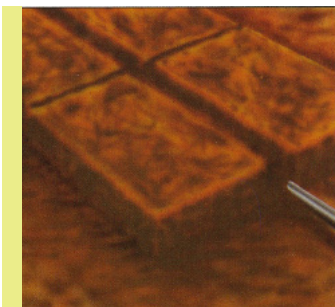


*ScourMat on installation*



*Sediment is building*



*Seabed is reinstated*

## Why scour occurs

On any underwater structure, the mass which lies adjacent to or penetrates through the seabed increases the velocity of the current locally. This causes an erosion of the seabed adjacent to the structure and is known as scour. Scour causes major problems related to stability and other performance factors for underwater structures.

## Stopping localised scour

FoundOcean developed **ScourMat** to provide a permanent solution to this problem. The ScourMat is an array of buoyant polypropylene fronds which open out to form a fan like array. They slow down the local current and cause particulate matter to settle. This builds up a new sand bank, effectively reinstating the seabed. This fibre reinforced sand bank will then resist further erosion. ScourMat does not require further maintenance.

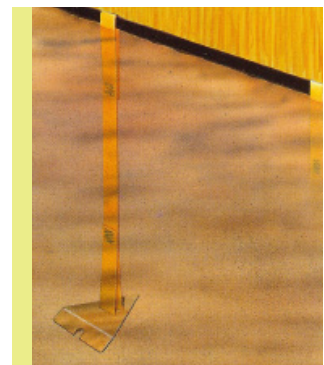
## Anchoring

Secure stabilisation of the ScourMat is critical, particularly in the early stages after installation. The anchoring system has been designed with an extremely high holding capacity. Anchors are driven into the seabed to a depth of 1m by a spigot attached to a hydraulic hammer.

*Close up of the ScourMat fronds*



*ScourMat anchor system*



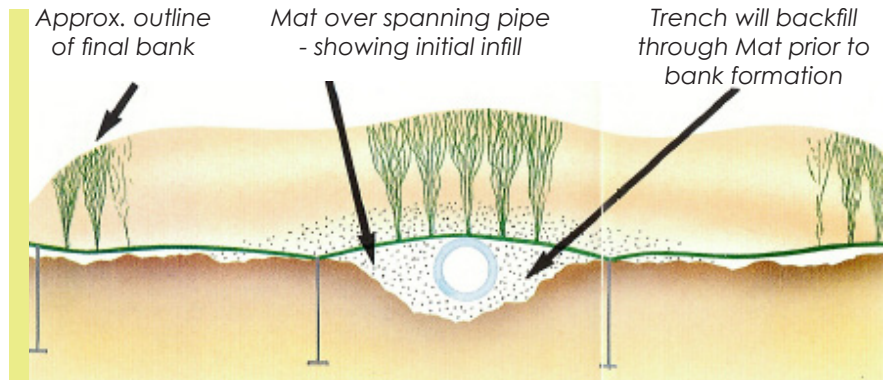
## GOOD TO KNOW

### Proven materials

All component materials have a proven track record of long-term immersion in seawater.

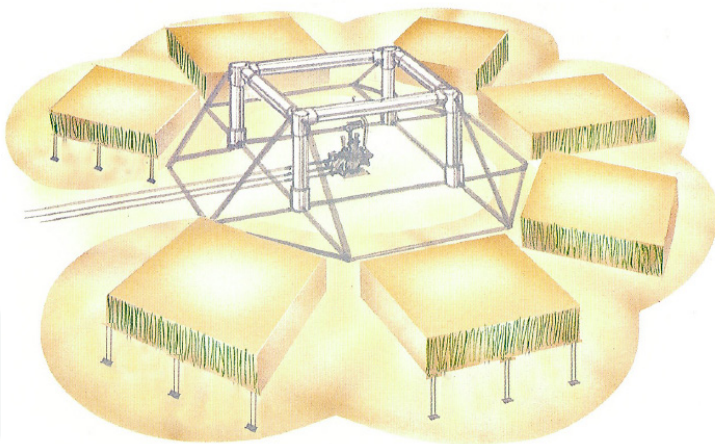
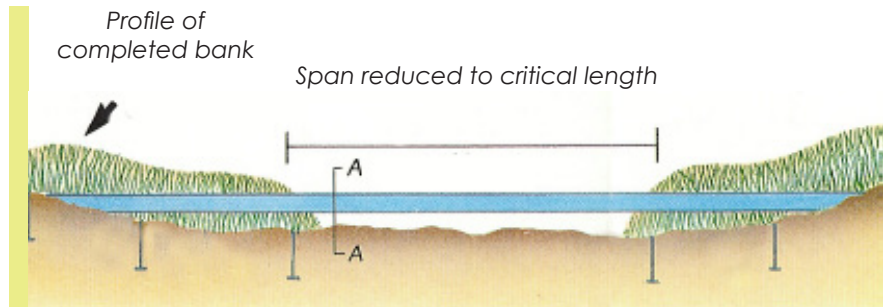
## Freespan Correction 1

ScourMat is placed over spanning pipelines in areas where the pipeline requires burial or impact protection. ScourMat can also be placed alongside the spanning pipeline.



## Freespan Correction 2

ScourMat is placed at extremes of freespan. Additional mid-span ScourMats can also be installed to reduce the freespan to within the critical length.



Wellhead protection frame stabilisation

Jackup and platform leg stabilisation

