



AMBICO

## Strengthening, Modification & Repair Solutions

### MassivMesh Concrete Mattresses





## About MassivMesh

MassivMesh is a flexible concrete mattress consisting of hexagonal concrete elements linked together with high strength non-degradable polypropylene rope.

The mattress has many uses in the protection, support and stabilization of subsea structures and pipelines and has been designed for its flexibility and ease of handling during installation.

## How it Works

MassivMesh conforms closely to structural and seabed profiles. Where local scouring occurs, polypropylene fronds may be added to enhance the build up of a spoil bank. MassivMesh mattresses are used for the protection of pipelines, cables, umbilicals and spoolpieces. In addition they are used:

- to support pipelines where the seabed profile is uneven
- to stabilize pipelines in areas which are susceptible to high currents
- for a number of other specialist applications.



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## Installation

Effective installation procedures are fundamental to the economic viability of subsea maintenance systems. MassivMesh is installed either singly or linked together using purpose built lifting frames.

Multiple deployment reduces vessel time and the mattress, supplied in segmented form, can be linked on deck prior to deployment, saving valuable deck space.

Ambico-FoundOcean has specially designed deployment frames which can be adapted to ROV or diver release.



**Mattresses being deployed by a frame**

MassivMesh mattresses can be supplied in a range of sizes and varying concrete densities to suit the particular application. Thicknesses are typically 300mm and 350mm and standard density is between 2,200 kg/m<sup>3</sup> and 2,300 kg/m<sup>3</sup>.

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