

Umat – Seabed Mattress System TS Umat – Temporary Seabed Support Mattress

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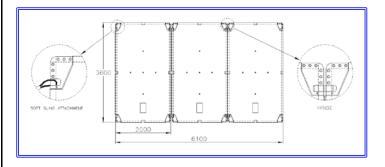
The TS Umat, Subsea Temporary Seabed Support Mattress, that was developed in 2003, is part of the Umat Seabed Mattress System that includes a number of different type and size, single or multi segment, high strength, seabed support and foundation mattresses that suit a wide range of subsea applications and / or conditions, including soft seabed.



Construction

- Made from SHS profiles, plates, high strength tear, and wear resistant fabric. All bolted together to form an Umat unit.
- TS Umat single segment size is 2m x 3.6m. The weight is 50 Kg in water (70kg in air).
- Up to five TS Umat segments can be hinged together to form one TS Umat assembly.
- A number of configuration options are available including inclusion of additional stiffeners, optional hinging direction and optional sizes (*see page 2*).
- Standard sizes / weights:

TS - Umat Configuration	Length (m)	Width (m)	Height (m)	Dry Wgt. (kg)	Seawater Wgt. (kg)	0
1 - Segment	2.0	3.6	0.08	70	52	7,2
2 - Segment	4.1	3.6	0.08	142	106	7.2
3 - Segment	6.1	3.6	0.08	214	160	7.3
4 - Segment	8.2	3.6	0.08	286	214	7.3
5 - Segment	10.2	3.6	0.08	358	268	7.3



Application & Features

- O Lightweight high load capacity, soft and hard seabed, temporary support mattress for flowline and umbilical termination heads, connectors, PLR's, UTA, SUT, tooling, diver operations, dredgers, and other seabed landed equipment (the most commonly used Umat mattress).
- Lightweight construction that is easy and fast to handle, install and recover without the use of lift spreader.
- Requires minimal deck space. Can be transported and stored in vertical position.
- Re-useable after recovery.
- Deployed without use of lift spreader.
- O Can be positioned / repositioned on the seabed by a Workclass ROV (e.g. lay down target box can be can be installed, positioned and/or re-positioned during lay down operation). As an option, the Umats can be delivered with Ufists for ROV handling.
- Prevent equipment from sinking into the seabed.
- Eliminates any seabed suction effects.
- The Umat fabric permits water to penetrate. There is no penetration of sand and silt (i.e. compaction of underlying seabed/soil during loading).
- o If required, delivered with deployment rigging installed on the Umat assembly. The rigging is either for a direct lift (1 and 2 segment), or for deployment as a folded unit (3-5 segment). For the latter the ROV releases the rigging, and the mats are unfolded on the seabed.
- O Delivered wrapped in plastic placed on purpose made wooden pallet for forklift handling (10 mats on each pallet / 15 mats on a heavy-duty pallet). In case of export, the wood material will be ISPM 15 certified.



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