

Umat – Seabed Mattress System

SSP Umat – Separation, Stabilisation and Protection Mattress

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The **SSP Umat**, Subsea Stabilisation, Separation and Protection Mattress, 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

- High strength, tear and wear resistant fabric, 5mm thick, with pockets for 23 off heavy wall thickness PE tubes and 2 off 51 x 51mm SHS Profiles (GRP Material) positioned in each end of the mattress.
- Two off 2t certified webbing slings for lifting and handling sewed into the mattress assembly.
- Mattress weight is varied by varying the number of sand filled tubes located inside the mattress. These are vented through a fine mesh net each end.
- Sizes / weights standard SSP Umat Type A1.2 are (Size: 3.1m long x 3.2m wide):

No. of sand filled tubes	Dry weight (Kg)	Seawater weight (kg)	Height (cm)	Seabed Wgt. (kg / sq. m)
23 (100%)	462	195	8.5	19.9
19 (83%)	434	177	8.5	18.1
17 (74%)	399	143	8.5	14.6
15 (65%)	348	125	8.5	12.8
11 (48%)	292	91	8.5	9.3
8 (35%)	249	64	8.5	6.6

- Other size, thickness & weight SSP Umats are available on request.
- Close to subsea structures, as an alternative to rock dump, smaller size ROV installable SSP Umats can be used.



- Unlimited surface / subsea lifetime provided that it is not exposed to UV radiation (i.e. sunlight) over a long period (1 year +).

Application & Features

- Applications are:
 - Seabed support mattress that is flexible in one direction.
 - Separation mattress between subsea installed equipment including sea lines.
 - Separation mattress between rock dumped areas and equipment placed on top.
 - Sea line crossing application when used in combination with Ubags type A1-100 (Mod.) or other types Ubags in order to achieve a separation of up to 300mm or more.
 - Weight mattress for stabilising subsea equipment.
 - Protection mattress for subsea equipment. Increased dropped object protection is obtained when used in combination with Ubags.
 - Temporary protection of seabed located equipment from crossing of holdback wires, laydown wires, anchor lines and similar.



- High load carrying capacity.
- Provision of optional lift rigging.
- Do not need and spreader bar or frame for lifting.
- Easy to move or recover.
- Includes integrated features that allow a lightweight (11 filled tubes) rolled up mattress to be provided with handles and release straps for ROV lifting, positioning and unfolding.
- One or several mattresses can be deployed in a ROV basket including any Ubags that shall be used for construction of a sea line crossing arrangement.
- Delivered packed on a pallet wrapped in plastic or in a ROV Basket ready for deployment. Any Ubags are delivered packed on a pallet, in a rental ROV basket, or in a drop bag.

Contacts

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