

Umat – Seabed Mattress System

SSP Umat Type F –Flexible

Separation, Stabilisation and Protection Mattress

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The SSP Umat Type F, Subsea Stabilisation, Separation and Protection Mattress including the optional insulation configuration, is flexible in two directions. It is part of the Umat Seabed Mattress System that includes several different types and size, single or multi segment, high strength, seabed 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 24 off flexible PE tubes and 1 off 60 x 60mm SHS Profile (GRP Material) positioned in one end of the mattress.
- Two off 2t certified webbing slings for lifting and handling sewed into the mattress assembly.



- Two mattress weight configurations are available. That is 24 sand filled tubes, or 13 sand filled tubes. The tubes are vented through a fine mesh net each end.
- Sizes / weights standard SSP Umat Type F1.2 are (Size: 3.5m long x 3.15m wide):

No. of sand filled tubes	Dry weight (Kg)	Seawater weight (kg)	Height (cm)	Seabed Wgt. (kg / sq. m)
24 (100%)	420	220	8.5	19.9
13 (54%)	205	119	8.5	10.8

- Other size, thickness & weight SSP Umats Type F are available on request.
- 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:
 - Permanent or temporary protection mattress placed over subsea equipment such as termination heads, PLR's,

UTA's, laydown heads and similar. Will also prevent accumulation of sand, silt and other on / around the equipment.

- No hard surfaces or edges that will snag on or scratch underlying equipment.
- Separation mattress between subsea installed equipment including sea lines.
- Separation mattress between rock dumped areas and equipment placed on top. It accommodates uneven seabed / rock dump area.
- Weight mattress for stabilising subsea equipment including pipe bends.
- Protection mattress for subsea equipment. Dropped object protection accommodated by tubes, water inside the tubes (hydraulic dampening), and sand located inside the tubes.
- Temporary protection of seabed located equipment from crossing of holdback wires, laydown wires, anchor lines and similar.
- With an optional inner non-penetrable liner that will trap heated water between the outer mattress layer and the sea line it will provide local insulation.



- Do not need and spreader bar or frame for lifting. The GRP profile located in one end of the mattress act as an integrated sling spreader and prevent the mattress from sagging when lifted.



- Easy to move or recover.
- Includes integrated features that allow a lightweight (13 filled tubes) rolled up mattress to be provided with handles and release straps for ROV lifting, positioning, and unfolding.
- Delivered packed on a pallet wrapped in plastic or in a ROV Basket ready for deployment.

Contacts

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