







*"Save the Beach with WAVEPLUS"*



*Break Water & Rivertment Project  
Chilaw, Sri Lanka*







## WAVEPLUS Sandbags

"Save the Beach with WAVEPLUS"

WAVEPLUS Sandbags are specially designed to resist sea erosion and to preserve the beaches for recreational activities. It withstands powerful waves, thanks to the special bag design which takes 6 tons of sand in a single bag. These bags are extremely durable in the marine environment exposed to heavy sunlight. WAVEPLUS Bags are manufactured by us, using an Italian made special purpose-built non-woven, UV resistant, engineered fabric. In order to take up a heavy weight of 6 tons in each bag and extended durability we use UHMWPE (Ultra Heavy Molecular Weight Polyethylene) thread which is, supposedly the world's strongest thread.

Some of the main features of WAVEPLUS Sandbags are as follows

### 1. 100% Environment Friendly:

Primarily, in trying to prevent sea erosion, we should take measures to avert further damage to the delicate balance in the marine environment by erecting artificial structures. WAVEPLUS sandbags on the other hand, are 100% environment friendly, as can be evidenced by activities of various species of crustaceans and seaweeds that start to grow on the surface of bags in no time!

### 2. Enhanced Strength and Durability with Extra Special Bag Material and Thread:

It is an important fact to understand that due to the constant heavy sea waves, the sand bag material along with the thread is prone to heavy abrasion.

In order to address this issue, we have used heavy abrasion resistant and super strong UHMWPE thread which has a strength of 45,000 cN. This thread is also UV stabilized and known to be the highest abrasion resistant and strongest thread available on earth.

Bag materials are purpose-built with a special UV cover and made out of 1000 gsm Virgin Quality High Tenacity Polypropylene, engineered fabric, which is extremely strong and durable.

### 3. Heavy Wave Resistance:

Thanks to the special bag design, wave pressure is perfectly absorbed when a "Sand Bag Dam Structure" is built.

### 4. Not Lost in Tides:

The bags will not get washed away by heavy waves over time, as each bag contains 5 tons of sand that expands to 6 tons when wet!





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*"Small Bag with  
a Big Mission"*







## EROSTOP

### "Small Bag with a Big Mission"

EROSTOP bag aims to prevent erosion by way of holding the earth from getting washed away. Be it be on a riverbed or a mountainous region, when positioned appropriately, the bags are powerful enough to keep the surface from eroding.

It has become the most popular product of our sand bag range due to its extra strength, resistance to Ultraviolet (UV) rays and heavy durability. The bag's lightweight makes it easy to handle, transport and install at various heights, in different regions.

EROSTOP is quite a versatile product as can be evidenced by the multiple applications that it supports.

Some such applications are, as listed below:

#### 1. Soil Reinforcement Work

EROSTOP bag is very useful in reinforcing walkways/steps in mountainous areas and in other kinds of soil reinforcement work.

#### 2. Riverbank/Riverbed Protection

The bag can also be used to control erosion in riverbanks and as "rip-rap" in erosion prone riverbeds.

#### 3. Flood Protection

Another very important application of EROSTOP bag is its ability to be used as a mode of protection from floods in low lying areas.

#### 4. Construction Sites

This bag is also widely used for permanent protection for slopes in construction sites and also as temporary retaining walls.

#### 5. Agricultural Applications

EROSTOP is an ideal product to block water in irrigation canals and also for distributing water by releasing the bags in stages for cultivation.

The filling material of EROSTOP bag can be any type of sandy soil, chips, gravels or any other fine material that can easily be grabbed from the surrounding. Sealing the bags are very easy with the use of a bag closing machine.



One of the most attractive features of this bag is that it is reusable. This means that, when the required application or project is over, you can clean and store it for future use.

The fabric material of EROSTOP bag is made in Italy and its durability is attested by the use of the special virgin quality, polypropylene non-woven engineering fabric that we use for manufacturing these bags. That being the fabric, in order to obtain high performance in carrying weight and tenacity we have stitched the bags using UV resistant, UHMWPE thread which is supposed to be the strongest thread on earth.



*Bag Closing*



**SkyTech Engineering (Pvt) Ltd,**  
No 16/6 B, Saparamadu Avenue, Nugegoda, Sri Lanka.

web : [www.skytech.lk](http://www.skytech.lk)

email : [pio@skytech.lk](mailto:pio@skytech.lk)

phone : (+94) 7777 26055

fax : (+94) 114240017

