



WaterGelSacks

The only ones in
the market with
military-grade
approval

The new
generation of
sand-less bags

Beware of imitations

The original
water-absorbing
inflation bag

www.WaterGelSacks.com





Flooding, a worldwide problem

The world's climate is changing and we face the devastating effects of flooding causing economic losses and taking human lives.

The latest official climate change projections indicate the rising rivers and sea levels, as well as an increase in severe and more frequent rainstorms, hurricanes and other natural disasters, which means increased flooding risks.

We need to react fast when it comes to those situations and very often the solution is not easily available, due to bulky and heavy storage requirements, handling and transportation costs, like traditional sandbag solution.

SAP is a type of molecule that can absorb the amount of water equivalent to several hundreds times its own weight and volume, reaching 90% of its absorbing capacity in just 4 minutes. Once the water is absorbed, it stays in a gelatinous state and the bag acts just like sandbags, keeping flooding at bay, against landslides, fire protection or other applications- but is more effective.

It is environmental friendly, innocuous, non-toxic, flavorless, pollution-free, biodegradable in nature and it decomposes without causing any pollution. It is also used in agriculture as water retaining agent or mixed with other chemicals as fertilizers, as well as other multiple applications in hygienic and sanitary products, among others.

WaterGelSacks™ solution uses traditional jute fiber as an outside bag. The jute is a natural fiber with excellent hydrophilic capacity and it decomposes naturally. The jute's good reputation for its strength and hardness was obtained during World War I when trenches were reinforced with bags of this material. Nowadays, jute fiber is also used to repair breakages of dykes as well as to reinforce embankments with an inclination of up to 60%, to fasten substrates, etc.



What is WaterGelSacks™ ?

WaterGelSacks™ is an innovative defense system for flooding and other emergencies. It inflates in contact with water and is designed to revolutionize the way we control the damage that these situations usually cause.

In the interior of the jute bag, there is a second semi-porous bag containing the SAP; Cotton is also a 100% natural fiber and keeps the SAP inside from leaking out.

WaterGelSacks™, a great solution with many applications



WaterGelSacks™ solution has become very popular in the last few years and it is used in many countries.

Insurance companies are now recommending their customers in risky flooding areas, to use WaterGelSacks™ solution, to prevent and avoid significant damages during those situations, because flooding is the most threatening natural cause of property damage.

Use WaterGelSacks™ in substitution of the traditional sandbags and much more.

- Flood protection barrier
- Fire
- Drainage areas
- Areas requiring retention and release of moisture
- Water redirection
- Military training
- Leaking / broken pipes / Soak spills
- Flash flooding
- Landslide prevention
- Rescue
- Chemical spill contained
- Elevator shaft
- Work site protection
- Construction
- Competition circuits
- ...



WaterGelSacks™ vs Sandbags or other solutions

1000 WaterGelSacks™ can be stored on a standard pallet, which means a significant space saving compared to a space taken by only 40 traditional sandbags.

WaterGelSacks™ is easy to transport, store and handle, from military applications or Civil Protection, to commercial or households.

Sandbags may seem a cheaper option, but in the end, they become a huge cost and a messy product. Also, improper cleanup can lead to an environmental disaster.



Preparation of traditional sandbags



Preparation of WaterGelSacks™



Transportation of traditional sandbags



Transportation of WaterGelSacks™



Deployment of traditional sandbags



Deployment of WaterGelSacks™

WaterGelSacks™ vs sandbags or other solutions

One person in a car or van can transport hundreds of WaterGelSacks™ to the scene because they are light and thin before used, while traditional sandbags require huge physical effort and strength, and also its storage and transportation is a large component of the cost of deployment, needing a dump truck and a sizeable workforce.

WaterGelSacks™ solution can be stored in any place such as home garages, basements, storage rooms, under a bed, and so. The 50-units cardboard box has a size of 64 (25") x 44 (17.3") x 32 (12.6") cm/inch.

WaterGelSacks™ specifications:

Size options	60 x 40 cm (24 x 16 in) 120 x 20 cm (48 x 8 in) Custom sizes available
SAP	± 200 g / piece
Weight	± 0,5 kg (1lb) - dry ± 18 kg (39,5lb) - after absorption
Materials	SAP and Jute exterior bag and cotton interior bag Or non-woven



Standard size

Size: 60 x 40 cm (24" x 16" in).



Special for doorstep use

Size: 120 x 20 cm (48" x 8" in).



Standard size

Size: 60 x 40 cm (24" x 16" in).

How to use WaterGelSacks™

When they are needed:

- 1.- Take WaterGelSacks™ to the scene and unwrap it from the original packaging of cardboard box and plastic bag.
- 2.- Immerse the bag in water nearby or directly by the floodwater if necessary; it can also be inflated with a hosepipe.
- 3.- WaterGelSacks™ will expand by absorbing water during 3-4 minutes; after that time it will be ready for use. After 4 minutes will be saturated.
- 4.- Use it for the purpose you need it for.

Use them as flood defense barrier in combination with plastic sheets.

Before using the WaterGelSacks™, it should be stored in an indoor dry place, in the original packaging of plastic bag and cardboard box, away from air, moisture, sunlight and heat. Extreme weather conditions like desert heat and freezing temperatures will not affect the useful life of the product if stored properly.



Once WaterGelSacks™ is inflated will remain effective for several months (depending on the weather conditions in each case/country). If once you have used them, you have to keep them to be used again during the next few weeks, they should be storage protected with plastic in an indoor place (like a garage). They won't leak or releases any water from the inside, but if when use them again, the WaterGelSacks™ have evaporated some of the water inside, you can soak them again and they will inflate the missing weight. This can be performed several times, depending on the outside temperature.

After the flooding (or any other use), WaterGelSacks™ can be disposed in authorized landfills or just cut the bag to remove the SAP inside which can be treated in landfills too or place it around plants and trees (do not put the SAP throughout the drainage systems because it might block it). The two bags (jute and cotton) can be disposed as regular waste. All the materials are innocuous and environmental friendly.

In case the bags have been inflated with contaminated water, we recommend early disposal according to the Authorities regulation.



The new materials for flood control as well as other emergencies, make this product:

High Technology	Efficient
Portable	Environmentally Friendly





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Distributor:

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