



ULTRATECH
INTERNATIONAL, INC.

Ultra-Flood Stopper® Product Information



Part# 5430, 6-Pack



Part# 5435, 2-Pack



Part# 5437,
1-Pack

Material Specifications

Part #	Description	Dimensions per Flood Stopper - Dry in. (mm)	Weight per Flood Stopper - Dry lbs. (kg)	Weight per Flood Stopper - Activated lbs (kg)
5430	Ultra-Flood Stopper® Bags 6-Pack	12 x 24 x .25 (305 x 610 x 6)	Approx. 0.6 lbs. (.27)	Approx. 30 lbs. (13.6)
5435	Ultra-Flood Stopper® Tube 2-Pack	8 x 60 x .25 (203 x 1524 x 6)	Approx. 0.6 lbs. (.27)	Approx. 20 lbs. (9.07)
5437	Ultra-Flood Stopper® Tube 1-Pack	8 x 120 x .25 (203 x 3048 x 6)	Approx. 1.2 lbs. (.54)	Approx. 40 lbs. (18.14)

Activating Ultra-Flood Stoppers®

- + Ultra-Flood Stoppers® rely on a super absorbent polymer to absorb 80-100 times its weight of fresh water to achieve a similar weight to sandbags.
- + Ultra-Flood Stoppers® activate to a height of approximately 3.5” to 4” (89 to 101mm) and approximately 30 lbs (13.6kg).
- + Soak Ultra-Flood Stoppers® in an optional quick-set filling pool or other type of bin that is filled with fresh water. Do not use salt water. Continue to add fresh water to provide enough to activate all the Ultra-Flood Stoppers® required.
- + Remove Ultra-Flood Stoppers® from the pool/bin prior to overfilling. Too much absorption can make them somewhat inflexible. Filling to approximately 80-90% is best allowing a good fit between units. The flood water then helps fill the Ultra-Flood Stoppers® to maximum capacity and tightly seal the units together.

Stacking Ultra-Flood Stopper® Bags to form walls

- + For heavy flooding or fast water flow, form a pyramid design with more Ultra-Flood Stoppers® bags along the bottom of the wall being created and fewer Ultra-Flood Stopper® Bags as the wall is built higher. Build to the desired height to hold back expected flood waters. A 1:3 ratio (one foot height requires a minimum of a three-foot base, two-foot height requires a six-foot base, and so forth) is a good rule of use.
- + For less severe flood events, stacking in a brick formation, one Ultra-Flood Stopper® Bag wide by three Ultra-Flood Stopper® Bags high can provide adequate protection in most instances. Taller walls require more rows of Ultra-Flood Stopper® Bags for stability and support as needed. Overfilling Ultra-Flood Stoppers® Bags may result in unstable walls.
- + Press fit the Ultra-Flood Stopper® Bags together, once in place, to prevent any gaps.

Stacking Ultra-Flood Stopper® Tubes to form walls

- + The Ultra-Flood Stopper® Tubes must be placed so the wider of the dual tube design is placed towards the expected flood waters. The thinner tube portion is designed to reduce any rolling action of the wider tube.
- + For heavy flooding or fast water flow, form a pyramid design with more Ultra-Flood Stopper® Tubes along the bottom of the wall and fewer Ultra-Flood Stoppers® Tubes as the wall is built higher. Build to the desired height to hold back flood waters. A 1:3 ratio (one foot height requires a minimum of a three-foot base, two-foot height requires a six-foot base, and so forth) is a good rule of use.
- + For less severe flood events, stacking in a brick formation, one Ultra-Flood Stopper® Tube wide by three Ultra-Flood Stoppers® Tube can provide adequate protection in some instances. Taller walls would require more rows of Ultra-Flood Stopper® Tubes for stability and support as needed. Overfilling Ultra-Flood Stoppers® Tubes may result in unstable walls.
- + Press fit the Ultra-Flood Stoppers® Tubes together, once in place, to prevent any gaps.



Frequently Asked Questions (FAQ)

- + **How many Ultra-Flood Stoppers® do I need?** You need to determine the length of an area you want to protect, the expected height of the flood and the velocity of the flow. Based on these factors, the thickness and height of the wall, along with the length will allow you to estimate the number of Ultra-Flood Stoppers® you will need, based on the length of the Ultra-Flood Stoppers® chosen. It is better to use more Ultra-Flood Stoppers® than less to ensure the system you build meets the demands of the expected flood event.
- + **How do I dispose of the Ultra-Flood Stoppers®?** Once the threat of a flood is gone, remove the Ultra-Flood Stoppers® and dispose of properly (Standard refuse pick-up is normally acceptable).
- + **Can I use salt or fresh water to activate the Ultra-Flood Stoppers®?** Never use salt water to activate the Ultra-Flood Stoppers® as it will negatively affect the Ultra-Flood Stoppers® ability to activate and swell. Only use fresh water. Wrap walls in plastic sheeting to minimize saltwater contact if used where salt water may be present in the flood waters. Avoid use where calcium and lime may be present.
- + **What if road salt is present where I want to use the Ultra-Flood Stoppers®?** If there could be road salt coming in contact with the Ultra-Flood Stoppers®, activate and set the Ultra-Flood Stoppers® in place on top of plastic sheeting that is long enough and wide enough to fit under the Ultra-Flood Stoppers® and can wrap up and over the Ultra-Flood Stoppers® wall facing the road salt and tuck the excess plastic wraps in between sides of the Ultra-Flood Stoppers® facing away from the road salt. Road salt will negatively affect the Ultra-Flood Stoppers®.

Frequently Asked Questions (FAQ)

- + **How long can I use Ultra-Flood Stoppers®, are they reusable?** If you plan to use the Ultra-Flood Stoppers® for future flood events, it is suggested you limit their use to a hurricane or flood season (2-3 months). Store them for reuse. Units will lose much of their weight and height as they evaporate over several weeks. They can be recharged with fresh water prior to reuse. After many weeks, Ultra-Flood Stoppers®, left outdoors may have a slime feel to them as the polymer migrates. This is normal and is not hazardous.
- + **Are there any special instructions for use in winter or snowy or freezing conditions?** Yes, activate and set the Ultra-Flood Stoppers® in advance of freezing temperatures. Do not move the Ultra-Flood Stoppers® if frozen to prevent damage and loss of contents.
- + **Will Ultra-Flood Stoppers® only hold back water?** Ultra-Flood Stoppers® can be used to hold back water, oil, and some chemicals.
- + **How fast will Ultra-Flood Stoppers® fill?** Ultra-Flood Stoppers® will activate faster if there is more water in the bin or temporary pool as the head pressure of the water will speed up the activating and fill process. Multiple units placed into a smaller container will slow the activation time. Agitating/moving the Ultra-Flood Stoppers® when in bins of water a few times during filling will help speed up the process. Normally you can expect a fill time of 2.5 to 5 minutes on the factors mentioned above.
- + **What is the reusability of Ultra-Flood Stoppers®?** Ultra-Flood Stoppers® can be used in place for approximately three-months, but evaporation will cause the Ultra-Flood Stoppers® to lose height and weight. They can be recharged by hosing down the wall or allowing slow rising flood waters to create full Ultra-Flood Stoppers®. Allowing heavier or faster moving floods to activate Ultra-Flood Stoppers® that are set in place, but inactivated, is not recommended as Ultra-Flood Stoppers® could be moved by wind or flood waters and create holes and inconsistent performance.
- + **Can I drive over Ultra-Flood Stoppers®?** No. Driving over activated Ultra-Flood Stoppers® is not recommended as they can be damaged and unusable. Avoid driving over the Ultra-Flood Stoppers® in any stage of activation.
- + **How long can Ultra-Flood Stoppers® be stored before use?** Ultra-Flood Stoppers® can be kept in cool, dry storage for years, prior to use. Keep the Ultra-Flood Stoppers® in the sealed poly bags for best results.
- + **Can any part of the Ultra-Flood Stoppers® be repurposed?** The inside contents (super absorbent polymer) of the Ultra-Flood Stoppers® can be removed prior to disposing of the Ultra-Flood Stoppers® and used as a soil amendment to help retain water in gardens and landscaping.
- + **What if I do not use the Ultra-Flood Stoppers® properly?** Use Ultra-Flood Stoppers® at your own risk. Since the company cannot oversee the proper deployment of Ultra-Flood Stoppers®, it can assume no responsibility for water or any other damage due to the use of the product.