



This [flexitank](#) installation system is universally recognized as a cost-effective method of bulk liquid transportation, utilizing a 20 foot (6 meter) standard, ISO container. It is possible to ship up to 6,500 gallons (24,500 liters) of nonhazardous liquid.

Safety of the product is assured, providing you follow these basic guidelines:

Your Flexitank will arrive packed in a valise, or in a box similar to Figure 1. If you ordered a complete set-up, you will receive two wooden pallets, called bulkheads. These will be used to retain the Flexitank in the container, during the load/discharge procedure, when it is necessary for the right hand door of the container to be open.



Figure 1

Thoroughly inspect the package and notify the shipper of any damage. Carefully open the box and check the contents.



Figure 2

You will receive some, or all, of the following items:

- Flexitank - check size and capacity
- Bulkhead and Bulkhead securing dowels/bars
- Harness - Full or Half set - and harness clips (if recommended)
- Secondary Liner (if recommended)
- Warning Labels
- Corrugated lining paper or cardboard liner
- Adhesive tape and Ty-Gard[®] (if recommended)

When ordering the container, ensure that you specify a steel reinforced, standard, twenty foot (20') ISO box container, with fully corrugated sides and ends. The container should be delivered on a low-boy, or tri-axle, slider chassis (figure 3).

When the container arrives, visually inspect the exterior of the container, looking for obvious damage. Ensure there are no gashes in the side, or rust fractures around the base. Check that the doors fit properly and reject if the closing bars are bent or distorted. Ensure that rated capacity of the container is sufficient for the product being shipped.



Figure 3





Figure 4

Check that the container has vertical door recesses in the door pillars, and at least five (5) lashing rings at the base of each side wall. (Figure 5).

The inside of the container should be free from rust or physical damage. Sweep the floor and check for nails, glass, sharp edges, etc., particularly on the overlap and welded areas on the walls.

If necessary, hammer downflat or grind off any sharp edges or projections. Cover with tape and/or cardboard to ensure maximum protection to the [Flexitank](#) material.



Figure 5

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If harness is used, attach the harness straps to lashing ring #'s 2 and 4 OR #'s 1,3 and 5 on one side of the container. Tie through the loop on one end of each harness. *If Ty-Gard is recommended, install on container sides at this stage.* Commence lining the container walls with the large roll of corrugated paper or rigid cardboard liner. Tape into position. (Figure 6) As you proceed attach the other end of each harness strap (if used) to the corresponding lashing ring on the other side of the container, using the snap or link. Make sure that the snap is fully locked, and the harness is not twisted. The harness should be behind the liner or corrugated paper.



Figure 6

DO NOT COVER THE VERTICAL DOOR RECESSES

If rigid cardboard liner is not used, cover the floor with the two medium rolls of corrugated paper. Loop the ends of the paper up the back wall of the container, and tape into position. Tape the overlap. Fold back and tape down the edges at the door. (Figure 7)



Figure 7



Figure 8

Lay out the secondary liner in the container. Locate the center of the liner end and tape to the back wall (viewed from the door), approximately five feet (5') above the floor.

Carefully open up the liner, taping the edges around the walls. Leave the excess at the door end of the container, as this will be fitted after the bulkhead has been positioned.

Place the folded [Flexitank](#) near the center of the container, with the delivery hose, or valve, facing the right hand wall, and the center vent central across the container. Unfold the Flexitank, fitting into the sides and ends of the container. Fold any excess material on top of the Flexitank, with the ends folded on top of the sides. (Figure 8) Fold back the door end of the Flexitank to allow room to fit the bulkhead(s). Carefully fold all slack harness (if used) to the center of the Flexitank.

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Figure 9

Lift the lower bulkhead into position across the container door, with the smooth side facing into the container. Insert the securing dowels through the holes on each side, (two per side) and drive home, making sure that each dowel fits securely into the door recesses. (Figure 9). If necessary, tape shims in the recess to reduce the width. Lift the upper bulkhead and fit in a similar manner to the lower.

If Ty-Gard has been recommended, complete the installation at this stage.

BEFORE ENTERING THE CONTAINER MAKE SURE YOU DO NOT HAVE ANY SHARP STONES, GLASS, ETC., ON THE SOLES OF YOUR SHOES / BOOTS

Enter the container, and using the small roll of corrugated paper, carefully line the inside of the bulkhead, making sure that the corners between the container and wooden bulkhead are covered.

Cut and tape corrugated paper over the top edge of the bulkhead to protect the [Flexitank](#). (Figure 10) Complete taping the secondary liner around the walls and across the bulkhead. Unfold the door end of the Flexitank, and make sure that the fill/empty hose is lying on top.



Figure 10

Check that the Flexitank is lying flat with no creases. Make sure the vent cap and hose clamps are tight.

CLOSE AND LOCK THE LEFT HAND DOOR. FIT THE ADHESIVE WARNING LABEL TO THE OUTSIDE OF THE DOOR, NEAR TO THE LOCKING BARS. FIT THE 'DANGER' LABEL TO THE DOOR SEAL USING THE WIRE OR CABLE CLIP PROVIDED.

Make sure that the right hand door closes and is not obstructed by the bulkhead. You may need to pack out with a length of lumber to make sure that the bulkhead is located as far forward as possible within the door recess. Small shims are provided to pack between left-hand door and bulkhead. If this is not done at this stage you will have difficulty closing the right hand door after the loading has been completed.

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Instructions for Loading

Position the vehicle and container on level ground, close to the product delivery point. Open the right hand door **ONLY**.

Reach inside the container and remove the hose cap from the [Flexitank](#) valve or hose. Place aside in a safe place. **DO NOT LEAVE ON TOP OF THE BULKHEAD** as it may get knocked under the Flexitank during the filling process.

It is advisable to use a valve between the Flexitank hose and the delivery hose. Connect the delivery hose to the valve, and then make sure that the valve is **OPEN**.

If necessary, support the delivery hose from the top container door lock, using a length of rope (or similar). Make sure the connections are tight. Cover the clamps so they will not damage the Flexitank.

Commence pumping the product into the Flexitank, making sure that the harness does not twist, or the hose puts excessive pressure on the Flexitank. The harness will gradually unfold and tighten as the Flexitank fills. The Flexitank will slowly unfold against the sides of the container. (Figure 11)

DO NOT WALK ON THE FLEXITANK UNTIL IT IS AT LEAST 3/4 FULL.



Figure 12

Continue to pump until the Flexitank is full. It is recommended that a meter be used to measure the quantity pumped. However, continually check during the loading procedure to ensure that the Flexitank is not overloaded.

The Flexitank is considered full when the surface is tight and firm, and unyielding when 'slapped' by your hand.

You may notice some air trapping within the Flexitank. This is quite normal, and can be released by entering the container - wearing soft sole shoes - and carefully releasing the vent cap, until the majority of air has escaped. Replace the vent cap and make sure it is tight.



Figure 11





Figure 12

Once loading is complete, close the valve, and disconnect the delivery hose. (Figure 12) This can be made easier by lifting the Flexitank hose or tilting the valve above the level of the filled Flexitank. Carefully remove the delivery hose, and replace the cap.

Make sure the cap is secure, cover and protect with corrugated paper, (or similar), taping to prevent loss during transit. Visually inspect the Flexitank, lining materials, harness, interior and exterior of container. Close the right hand door, lock and seal.

Figure 12 *The Flexitank is now ready for shipment.*

Instructions for Discharge

Unless otherwise stated, your Flexitank has been fitted with a two inch (2") male quick connect fitting on the hose end or valve. Position the vehicle and container on level ground close to the discharge point. Visually inspect the exterior of the container. Note any damage.

Open the right hand door **ONLY**. Reach into the container and remove the protective cover from the hose end or valve. **DO NOT REMOVE THE HOSE CAP AT THIS STAGE.**

Locate the product discharge hose and arrange by the container door. Use a rope, (or similar), to support the discharge hose from the container top door lock.

If there is no valve fitted to the Flexitank, tilt the Flexitank hose above the level of the filled Flexitank, carefully remove the hose cap, and place aside.



Figure 13





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DO NOT OPEN THE VENT CAP - IT IS NOT NECESSARY, AND WILL PREVENT PROPER OPERATION

Connect the discharge hose to the valve or hose end. Make sure the connections are tight and the clamps will not damage the Flexitank. You are now ready to start the discharge.

DO NOT WALK ON THE FLEXITANK ONCE PUMPING HAS STARTED.

Continue pumping until the lashing rings are visible along each side of the container. At this stage, enter the container and lift the back (furthest end from the door) of the Flexitank, to allow product to drain towards the center. Fold the Flexitank - each side into the center - and then roll towards the door end of the container. Try to form a small reservoir around the hose area. This will minimize the heel left in the Flexitank. In certain cases, it may be advisable to use a squeegee roller, or brush, to move excess heel towards the hose area of the Flexitank.

When you are satisfied that all removable liquid has been pumped from the Flexitank, switch off the pump, close the valve and disconnect your hose. Disconnect the discharge hose from the valve (if fitted) or Flexitank hose. Replace the cap on the hose and cover with the protective paper.

Carefully fold the [Flexitank](#) away from the bulkhead, and remove the two bulkheads. Completely fold the Flexitank. If the Flexitank is a 'One-Way' type, place aside for proper disposal. If the Flexitank is the 'Multi-Trip' type, re-pack for return.



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