



## Flexitank Instructions and Handling Guides

### CONTAINER SELECTION

Select a 20" Standard container,8'6"high, with a gross weight rating of 30480 Kg or higer,5 years of age or less(Check data plate).

#### 1. External inspection

A container should be inspected inside and outside before it is packed with cargo, if there is evidence that the container is weakened, it should not be used. Walls, Floor and roof should be in good condition and not significantly distorted, Doors should work properly and be capable of being securely locked and sealed in the closed position. Door gaskets and weather strips should be in good condition. A container should bear a current international convention for Safe Containers(CSC) Safety Approval Plate. The container must not have Decal or maker panels.

#### 2. Internal inspection

A container shall be weatherproof, previous patches and repairs should be carefully checked for possible leakage. A container should be free from major damage, with no broken flooring or protrusions such as nail, bolts, glass, sharp edges, special fittings, etc. which could cause injury to persons or damage the flexitank. A container should be clean, dry and free of residues and persistent odors from previous cargo.

### CONTAINER HANDLING

1. Carefully sweep the floor and check by eye and hand for any rough edges, projections, splinters, screw heads or weld patches. Heavy duty tape should be used to cover and protect potential trouble spots.



2. Container walls to be covered with corrugated paper being 1.5 meter high. The corrugated paper should be fixed by tape at interval.



3. Container floor to be covered with two corrugated papers with a 20cm overlap. Fold excess paper(30cm) from side to cover the lashing rings/bars(located on the longitudinal rails and corner posts)



### **FLEXITANK LAYING PROCESS**

Laying the flexitank on the right side of the middle of the container, Opening the flexitank forwards or backwards. Then opening turn right.



## BULKHEAD KIT INSTALLATION

Install five metal bars(length 2400mm) in the vertical recesses of the corner posts of container. Place corrugated(highness 1500mm,width 2330mm) supported by metal bars and fixed by cable ties.

### 1. Top Loading & Bottom Discharge Or Bottom Loading & Bottom Discharge

- 1) Set up the first steel bar to the bottom of container's trough. Then use the stretching screw to tighten the extension small steel tube.



- 2) After the first steel bar, laying the PVC tube (length 25cm) at two sides
- 3) Set up the second steel bar on the PVC tube. Then laying the PVC tube (length 25 cm) at two sides.
- 4) Set up the third steel bar on the PVC tube. Then laying the PVC tube (length 30cm) at two sides. Like 3) process setting up the forth, fifth Steel bars.
- 5) Place corrugated(highness 1500mm,width 2330mm) supported by metal bars and fixed by cable ties. Then the **location-plate** fixed to the bulkhead by cable ties.





## 2. TOP Loading & Top Discharge.

- 1) Set up the first steel bar to the point (about 10cm higher from the bottom) of container's trough. Then use the stretching screw to tighten the extension small steel tube.



- 2) After the first steel bar, laying the PVC tube (length 24cm) at two sides.
- 3) Set up the second steel bar on the PVC tube. Then laying the PVC tube (length 24cm) at two sides.
- 4) Set up the third steel bar on the PVC tube. Then laying the PVC tube (length 24cm) at two sides. Like 3) process setting up the forth, fifth Steel bars.
- 5) Place corrugated (highness 1500mm, width 2330mm) supported by metal bars and fixed by cable ties.



**FLEXITANK LOADING PROCESS**

1. Laying the bubble stick to the middle of container door. Then close the left door well.



2. Remove all old labels and stickers, Fit warning label on the left-hand door as close to locking handles as possible.



3. Attach the load hose with female camlock connection to the male adapter of flexitank valve. Be sure that the valve is on open position. Start loading the flexitank slowly. The maximum loading rate of the pump must be adjusted to



be approx.200 liters per minute until to 3000 liters have been filled. Once approx. 3000 liters have been filled, loading rate of plum can be increased.

4. Check constantly for leaks in hoses and connections, In the process of loading the wings of flexitank will slowly open out against container sides and bulkhead.
5. Ensure that flexitank unfolds properly and does not trap itself in corners.
6. After loading is completed, close the valve, drain feeding hose and disconnect hose from the flexitank and replace valve cap.
7. Visually check the exterior of the standard container to ensure no damage has occurred during loading process. Little bulging of container walls may happen.

#### FLEXITANK DISCHARGE PROCESS

1. Locking mechanism on left hand container door check and corrently positioned. DO NOT OPEN LEFT HAND DOOR UNTIL DISCHARGE COMPLETED.
2. Attach the discharge hose with female camlock connection to the mail adapter of flexitank valve. Be sure that the valve is in open position.Start discharging the flexitank slowly.



3. Discharge hose inspected to ensure excessive strain is not applied to the hose. Check constantly for leaks in hoses and connections.
4. Once the residual product in flexitank is approx.3000 liters, the maximum discharge rate to pump shall be adjusted to approx.200 liters per minute.
5. Any residual product drained from flexitank.



**FLEXITANK LOAD/DISCHARGE PUMP INFORMATIONS**

1. Must be self-priming and positive displacement pumps.
2. Air Driven pumps such as a Wilden or Sandpipers are recommended.
3. Gear pumps are also recommended
4. Centrifugal pumps cannot be used