

INSTALLATION OF 1500 GALLON COMBO TANK W/ .50 FAST UNIT

1) Tank hole excavation and tank installation

Excavate tank hole at least 12" longer and 12" wider than tank. Excavate depth of hole so that a minimum 2% pipe grade is maintained from home plumbing to inlet of tank. If depth is over dug, bottom of hole is unstable, or bottom of hole is not smooth and level, 6" of sand or $\frac{3}{4}$ minus crushed rock should be placed in bottom of hole and hand tamped. Hole should be level from side to side and end to end. Backfill tank with either clean native soil, sand, or crushed rock. Backfill should be placed in 12" lifts equally around tank and lightly compacted. Ensure that large or pointed rocks are not placed next to new tank.

2) Tank Buoyancy countermeasures

If tank is being placed in a high ground water environment, tank buoyancy countermeasures may need to be employed. A 30" soil cover over tank would be sufficient to hold tank in place. If soil option is not available, then a 2 cubic yard concrete cap poured on top of tank or 8000 lbs of concrete dead man strapped to tank will hold tank in place.

3) Riser attachment

Riser/s needs to be cut so that when installed riser will be at least to ground surface. Clean riser and tank/riser adapter to ensure good bonding. Apply either 2 part epoxy or other bonding agent to each surface and press both surfaces together. Using a tongue depressor or index finger spread bonding agent so that it fills any gap between riser and tank adaptor. Once installed allow to cure before water testing. Lid is to be secured in place by a minimum of two stainless steel screws.

4) Tank water-tight testing

Using 4" gripper plugs, plug both the inlet and outlet holes of tank. Fill tank with water 2" into riser, and mark water height in riser with marker or pencil. Tank my loose only one gallon of water in a 24 hour period. (Note. A 24" dia. riser holds 2 gallons of water per inch.)

5) Attaching piping

Clean both piping and tank coupler, using appropriate glue for piping being used, apply glue to both surfaces. Press surfaces together and give a quarter twist. Hold piping together until starts to set.

6) Fast unit installation

Install Fast unit as per Fast installation manual.

7) Pumps, Control floats, and Electrical Wiring

NOTE: Assembly of all dosing parts to follow OAR 340 ch. 073- 0055

- a. All electrical wiring to follow local and national electrical codes
- b. All piping and conduits passing through riser should be in a water tight manner
- c. All pumps installed to be at least 1/3 HP
- d. Alarm float to be set at a minimum of 1/3 daily flow volume below inlet baffle,
- f. Floats controlling dosing amounts shall be set to dose no more than 20% of daily flow per dose, (90 gallons).

NOTE: Dosing tank Liquid level is 11 gallons per inch

If any questions, contact Advantage Precast Inc. at (503) 390-2048