

**1. INTRODUCTION**

- 1.1. Follow these Supplemental Instructions as well as those covered in the most recent edition of Containment Solutions, Inc. Single-Wall Tank Sump Installation Instructions (Pub. No. INST 6030).
- 1.2. In addition to these instructions, the installation must comply with NFPA (30, 30a, AND 31), OSHA and all applicable Federal, State, Local or Provincial, construction, safety and environmental codes and regulations.
- 1.3. The presence of any Containment Solutions representative at the job site does not relieve the contractor of responsibility to follow these instructions.

**2. HANDLING & PREPARATION**

**CAUTION**

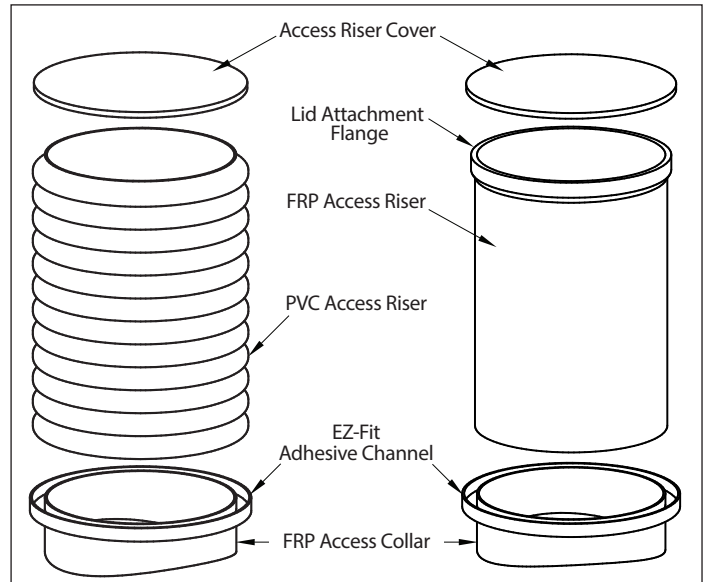
In freezing conditions, protect collar and riser from water accumulation. Freezing water may cause damage.

- 2.1. Visually inspect the riser components for shipping or handling damage. If damage is found, contact CSI Field Service.
- 2.2. Wear gloves.
- 2.3. Do not roll, drop, or bounce.
- 2.4. Riser parts and assembly kits should be stored in upright position.
- 2.5. Set on smooth surface.
- 2.6. The riser must be secured to prevent damage from high winds. Proper precautions should be taken to protect adhesive channels.
- 2.7. All assembly kits (Kit-AD or Kit-LK) should be stored in a cool/dry location at 50° - 70°F. Use by expiration date shown on the box.

**3. ASSEMBLY INSTRUCTIONS**

- 3.1. Dry fit all riser components prior to installation (See Figure 3-1).
- 3.2. Remove any rocks, and/or debris from adhesive channel.
- 3.3. Sand and clean all mating surfaces until white in color.
  - 3.3.1. Adhesive Joints - Sand all the surfaces that will contact the adhesive, then wipe free of dust with a clean cloth.
  - 3.3.2. Ensure mating surfaces are free of contaminants.
  - 3.3.3. Do not use oil-based solvents, soap, or water to clean surfaces.
- 3.4. Confirm that surfaces and/or adhesive channels are dry and clean before mixing or applying the adhesive.
- 3.5. For 36" diameter PVC pipes, remove bottom external rib on pipe to insure adequate coverage of the adhesive in the channel.

Figure 3-1



**4. ADHESIVE & LAYUP INSTRUCTIONS**

**WARNING**

To prevent fire or explosion hazard, Containment Solutions recommends air driven tools whenever possible. Do not use electrical power tools where flammable vapors or liquids exist. Also, when electric hand tools are used, be aware of potential shock hazards. Wear protective clothing and eye protection. Manholes & Wetwells may be a confined space. Do not enter unless following OSHA guidelines for confined space entry. Failure to follow OSHA guidelines could result in death or serious injury.



ASPHYXIATION



FIRE



EXPLOSION

**WARNING**

Always wear protective goggles and gloves when mixing and applying adhesive and resin. The liquid materials are flammable. Keep adhesive and resin away from sparks and ignition sources.

- 4.1. CSI risers must be installed using only CSI supplied assembly kits.
  - 4.1.1. Adhesive kits (Kit-AD) are used to field bond riser components using EZ-Fit adhesive channels.
  - 4.1.2. Lay-up kits (Kit-LK) are used to field bond joints without EZ-Fit adhesive channels.
- 4.2. Temperature Considerations:
  - 4.2.1. After mixing adhesive and hardener, you will have no more than 20 minutes to complete the application before the resin begins to harden.

- 4.2.2. Recommended method for supplemental heat is to transfer warm air to the riser while keeping ignition sources away.
- 4.2.3. Cool Weather (less than 60°F):
  - 4.2.3.1. Preheat the resin or adhesive to 60-75°F.
  - 4.2.3.2. Before adhesive or layup is applied, add supplemental heat. Apply heat to keep joint surfaces over 60°F.
  - 4.2.3.3. After adhesive or layup is applied, continue to apply supplemental heat until it hardens (30 minutes minimum).
- 4.2.4. Warm Weather (between 61°F and 85°F):
  - 4.2.4.1. Adhesive or hand layup will harden in approximately 20 minutes. No supplemental heat required.
- 4.2.5. Hot Weather (above 85°F):
  - 4.2.5.1. Apply adhesive or layup more rapidly (adhesive and resin may harden in less than 10 minutes).
  - 4.2.5.2. To increase working time, cool the adhesive or resin to 60° - 65° F to slow down chemical reaction.

4.3. Kit Contents: This kit is designed for Adhesive Joints.

**EZ-FIT ADHESIVE JOINTS (KIT AD)**

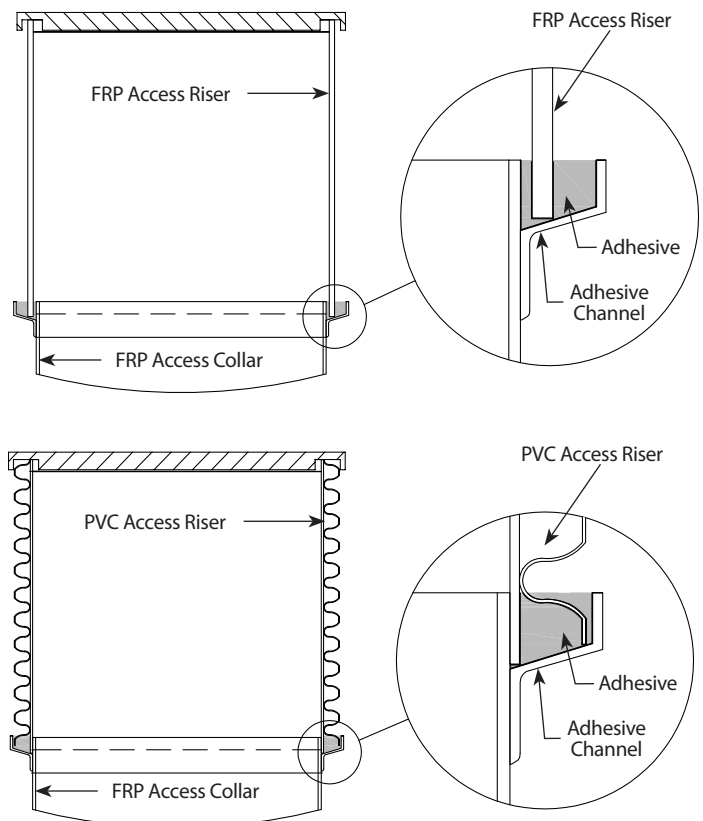
Items	Size	Qty.
Mix Instructions Sheet (INST 6051)		1
MSDS for Adhesive Mix (INST 6023)		1
MSDS for Catalyst (Cadox L-50A)		1
Putty Knife		1
Adhesive Mix (Part A)	1 gal. can	1
Catalyst (Part B)	5 gram tubes	12
Sandpaper	36" long	1
Grout Bag		1
Mixing Stick		1

- 4.4. Read the following instructions completely before applying adhesive to EZ-Fit channel.
- 4.5. Dry fit all riser components prior to sealing joints, as outlined in Section 3.
- 4.6. 24" access risers require (1) adhesive kit per EZ-Fit adhesive channel to properly install.
- 4.7. 30" and 36" access risers require two (2) adhesive kits per EZ-Fit adhesive channel to properly install.
- 4.8. Thoroughly mix two part adhesive by hand or with a powered mixer following the mixing instructions contained in the adhesive kit. Pour into grout bag.
- 4.9. Using the grout bag make 360° circular motions, filling the adhesive channel evenly until all adhesive has been used.

- 4.9.1. All adhesive must be dispensed at the time of installation so if two adhesive kits are required based on the access riser diameter both kits must be thoroughly mixed, poured into grout bags and emptied into the adhesive channel simultaneously.

4.10. Immediately place access riser into adhesive channel, submerging the riser into the adhesive, until the riser rests on the channel bottom (see Figure 5-1).

Figure 5-1



- 4.11. Allow adhesive to cure at least 5 hours without moving the joined parts. The surface of the adhesive must be hard; if not hard after 5 hours, wait up to 24 hours.
- 4.12. Properly dispose of any unused adhesive kit contents by following the mixing instructions contained in the adhesive kit.