

APP CryoTek Pipe Shoe



YOU WILL NEED:

SILICONE/EPOXY (SEE: CARTRIDGE LOADING)



EX-100
APP Standard Epoxy Cartridge - 2 Part, 6 OZ.



EX-200
2 Part Static Mixer



EX-500
APP Epoxy Applicator



OPTIONAL IS 800
Silicone Sealant

BANDING COMPONENTS



BI-C206
3/4" Stainless Steel Banding Clips

BI-C256
3/4" Stainless Steel Banding Clips

TOOLS AND COMPONENTS



BI-C001
BAND-IT Tool

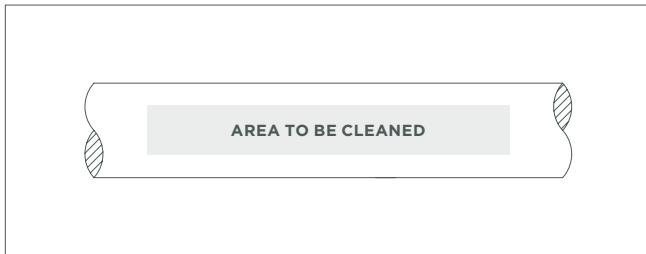


CRC QD™ ELECTRONIC CONTACT CLEANER
(or equivalent)



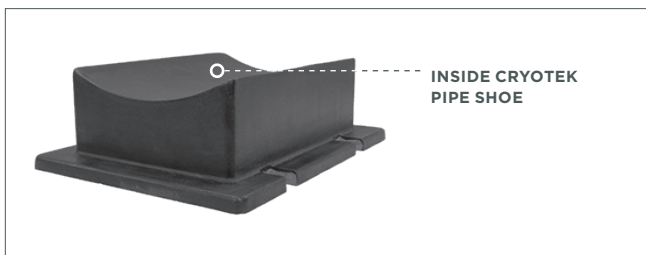
EMERY CLOTH

1. PREPARE THE PIPE



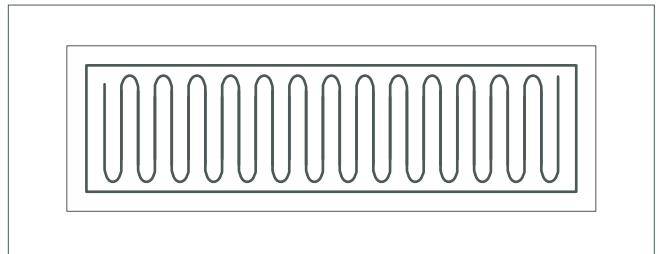
- ① Clean pipe to remove all loose scale, paint, and debris. Abrade new painted surface with emery cloth or equivalent to remove sheen.

2. SOLVENT WIPE



- ① Solvent wipe pipe with CRC QD™ Electronic Contact Cleaner, or equivalent, to remove any contamination and ensure the area is dry.
- ② Solvent wipe inside cradle of CryoTek Pipe Shoe.

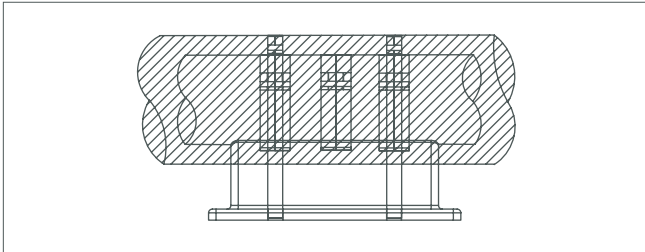
3. APPLY EPOXY



- ① Perimeter - Apply a continuous bead of epoxy to the perimeter of the CryoTek Pipe Shoe cradle. If ambient temperature is below 50°F, use a heat gun or heating blanket to heat bonding surface to between 65° - 150°F so that epoxy spreads easily.
- ② Interior - Apply a random-shaped bead of epoxy inside the continuous bead you applied to the perimeter of the CryoTek Pipe Shoe cradle. Use the manual applicator (small shoes) or pneumatic applicator (shoe sizes 6"+).

APP CryoTek Pipe Shoe, continued

4. BANDING



SEE: BANDING TOOL INSTRUCTIONS

- ① Place CryoTek Pipe Shoe over area to be installed.
- ② Pull the bands tight using the banding tool. (See Banding Tool Instructions.) Secure all bands using the banding clips.
- ③ For shoes larger than 12" in length, there will be six bands—two in each of the three the slots.
- ④ For shoes smaller than 12" in length, there will be four bands—two each in each of the two slots.

5. FINAL STEPS



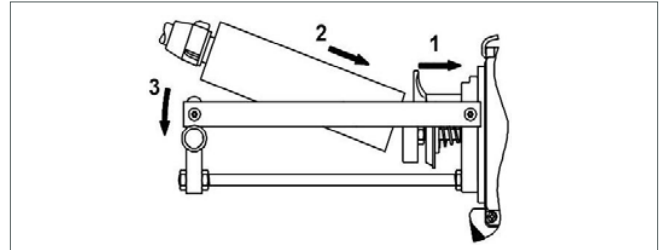
- ① Allow four to six hours (depending on ambient temperature) for the epoxy to harden.
- ② Seal perimeter of shoe with APP Epoxy or IS 800 Silicone Sealant for gaps greater than 1/8".

FOLLOW RECOMMENDATIONS FOR CURING/TEMPERATURE.

TEMP	TIME
60 °F	8 - 12 hours to handling
150 °F	2 hours
200 °F	30 minutes

Additional Instructions:

CARTRIDGE LOADING



- ① Ensure rods are fully retracted towards the barrel.
- ② Locate rear of cartridge and align over plungers and onto cartridge locators.
- ③ Push back firmly until the front of the cartridge can be located in the frame assembly.
- ④ Check that the cartridge is correctly located before operating the trigger.
- ⑤ Expel epoxy onto a piece of paper until the mixture emerging is gray in color.

SERIES 1 DUAL COMPONENT LOADING AND DISPENSING INSTRUCTIONS

IF USING PNEUMATIC APPLICATOR, START HERE: AIR SUPPLY

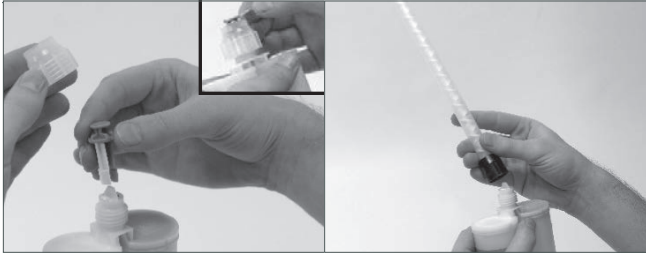


- ① Remove dust cap and seal thread (PTFE Teflon tape recommended).
- ② Fit airline adapter (supplied).
- ③ Attach airline connection (not supplied).

APP CryoTek Pipe Shoe, continued

Additional Instructions, continued

FOR BOTH PNEUMATIC AND MANUAL APPLICATOR: BI-MIXER CARTRIDGE PREPARATION



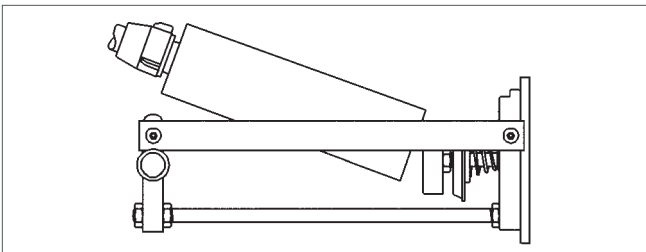
- ① Remove metal retaining clip. Unscrew cap and remove cartridge sealing plug.
- ② Fit mixing nozzle to cartridge as directed on the sealant instructions.

CO-AXIAL CARTRIDGE PREPARATION



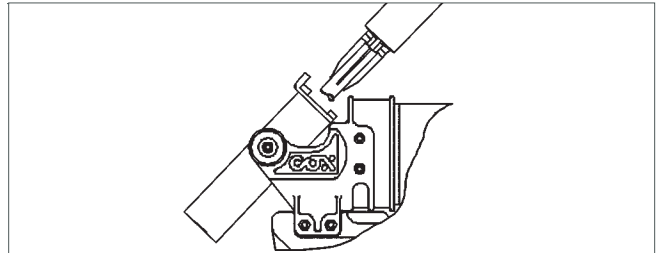
- ① Unscrew and remove cartridge cap.
- ② Fit mixing nozzle to cartridge as directed on the sealant instructions.

LOADING TWO-COMPONENT APPLICATORS WITH CARTRIDGE LOCATORS



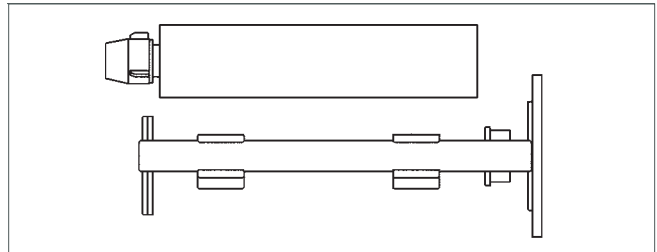
- ① Depress the release plate and fully retract the rods.
- ② Locate rear of cartridge over plungers and align onto cartridge locators.
- ③ Push back firmly until the front of the cartridge can be fit into the frame assembly.
- ④ Check that the cartridge is correctly located before operating the trigger.

TWO-COMPONENT APPLICATORS WITH HINGED CARTRIDGE SLEEVE



- ① Depress the release plate and fully retract the rods.
- ② Twist sleeve downward.
- ③ Load the cartridge into the sleeve.
- ④ Close sleeve fully.
- ⑤ Check that the cartridge is correctly located before operating the trigger.

TWO-COMPONENT APPLICATORS WITH SUPPORT STRAPS

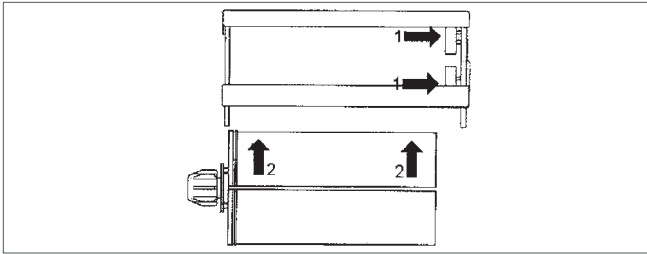


- ① Depress the release plate and fully retract the rods.
- ② Place cartridges into frame assembly, making sure the front of the cartridge locates in the frame assembly slot.
- ③ Check that the cartridge is correctly located before operating the trigger.

APP CryoTek Pipe Shoe, continued

Additional Instructions, continued:

LOADING TWO-COMPONENT APPLICATORS WITH SIDE-LOAD FRAME



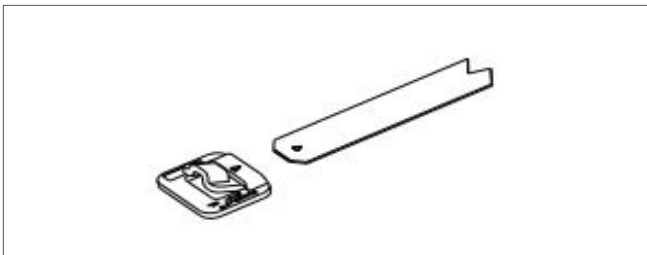
- ① Ensure rods are fully retracted towards the handle.
- ② Place cartridge into frame assembly, making sure the front of the cartridge fits in the frame assembly slot.
- ③ Check that the cartridge is correctly located before operating the trigger.

DISPENSING MATERIAL

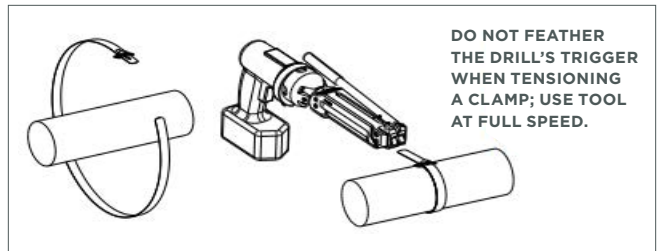
- ① Squeeze trigger—always use full trigger pulls.
- ② To stop any product flow on, depress the release plate when dispensing is finished.

BANDING TOOL INSTRUCTIONS— CLAMP APPLICATION FREE-END CLAMPS

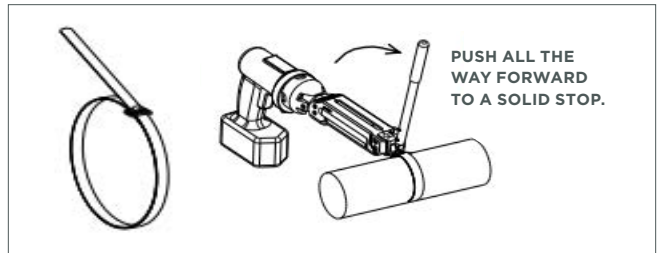
UL4000-C // UL4000-C 200 // ULTRA-LOK® TOOL



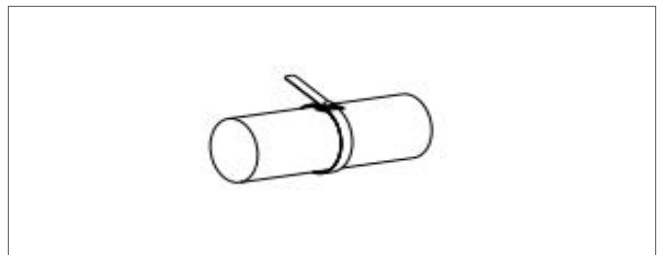
- ① Break off an Ultra-Lok® Free-End tie from the roll. Slide the buckle onto band with indented arrows pointing in same direction and with same side up. Slide the buckle all the way onto the band until it comes to a stop between the two buckle dimples at opposite end of the tie.



- ② Wrap the tie around the object to be clamped. Insert the tie through the buckle once for single wrap or twice for double wrap. (Double-wrapped clamps have more than three times the loop-tensile strength.)



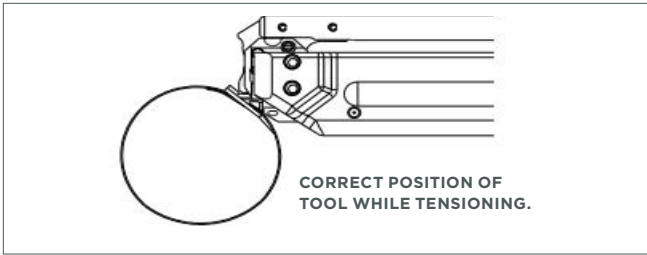
- ③ If desired, you may pre-form a clamp in the same fashion as step 2, or use a preformed clamp in place of a Free-End.



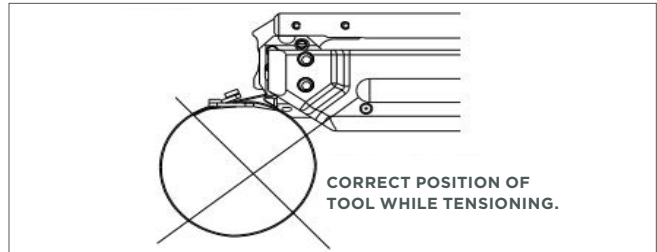
- ④ Position the tie on the object you are clamping. Pull the wrapped tie hand-tight. Slightly bend the tail up to keep the clamp in place.

APP CryoTek Pipe Shoe, continued

Additional Instructions, continued:



- ⑤ Actuate drill until tension block is all the way forward against the tool body. Set drill to clockwise rotation. With cut-off handle down as shown, insert clamp tail into tool head slot. Actuate drill until drill's built-in clutch disengages. If tension block comes near its end of travel, release actuator switch and reverse drill to pull more on clamp tail. Excessive use of disengaging drill clutch indicated by a loud ratcheting sound leads to premature wear of the tension screw.



- ⑥ Do not force the tool against the clamp; it may result in a folded clamp tail.
- ⑦ Pull the cut-off handle forward to cut tail off and form a lock, then return handle to the down position. Reverse drill and feed clamp tail out of tool.
- ⑧ Tap down buckle shroud to complete clamp. Tool is ready for next clamp.

ULTRA-LOK POWER BANDING REFERENCE CHART

PIPE SIZES	PART #	PACKAGE QUANTITY	WEIGHT	DESCRIPTION
.75 - 4	UL2020	30/tote	4.3	Power banding for .75 - 4
6 - 8	UL2036	33/tote	8.2	Power banding for 6 - 8
10 - 12	UL2048	25/tote	8.2	Power banding for 10 - 12
14 - 16	UL2060	20/tote	8.2	Power banding for 14 - 16
18 - 26	UL2092	13/tote	8.2	Power banding for 18 - 26
28 - 38	UL2120	10/tote	8.2	Power banding for 28 - 38
40 - 48	UL2150	8/tote	8.2	Power banding for 40 - 48
52 - 54	UL2175	7/tote	8.2	Power banding for 52 - 54
56	UL2185	5/tote	8.2	Power banding for 56
60 - 72	UL2236	5/tote	8.2	Power banding for 60 - 72

If you have further questions on CryoTek Pipe Shoe installation or any other product inquiries, contact APP at 888.408.9872 or 713.956.2922.