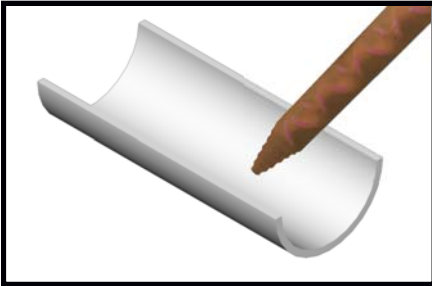


# RLX- xx-01-U SERIES INSTALLATION INSTRUCTIONS

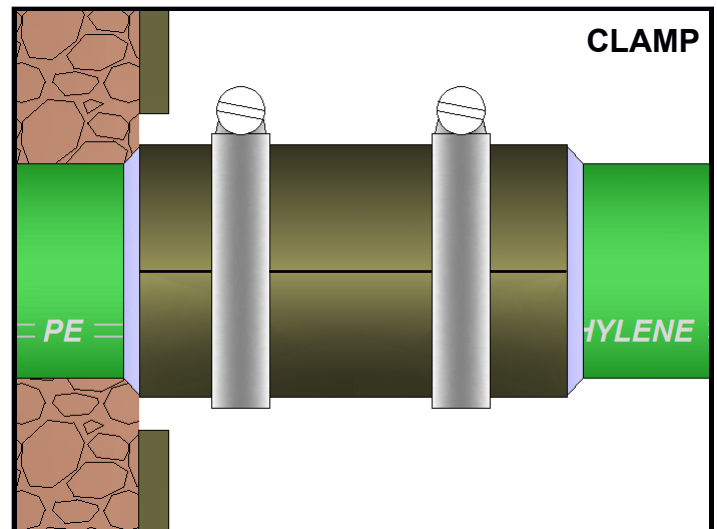
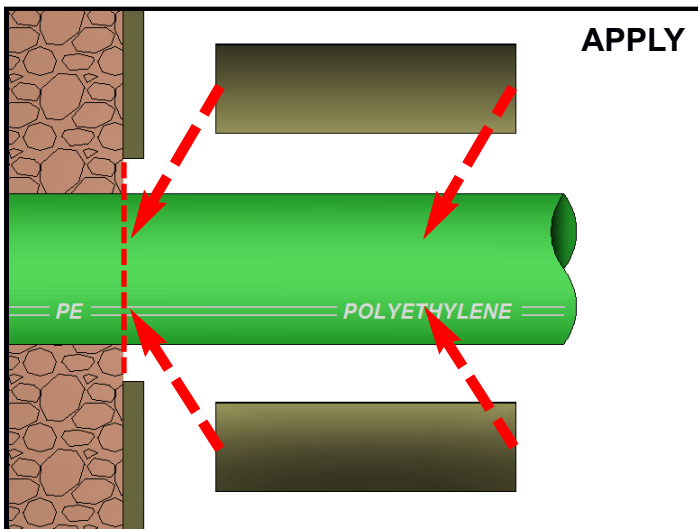
**FLX-SERIES IS FOR MATURE EXISTING PIPE ONLY, NOT FOR RE-PIPING.  
REFER TO “FLEX PIPE I.D. CHART” FOR ADHESIVES AT SBRAVO.COM/FLX**

- 1) Remove interior boot components and remove or push bolts back into the backfill.
- 2) Thoroughly clean the pipe of any/all contaminants or sealants and lightly sand the exterior, 360° around.
- 3) Clean the wall of any/all contaminants or sealants and abrade the wall thoroughly.



- 4) Ensure the sump interior, pipe and fitting area will be completely dry during all installation steps.
- 5) Hand sand the interior surface of both sleeve halves for maximum bonding grip.
- 6) Apply the appropriate adhesive generously to the interior of each fiberglass sleeve.

- 7) Clamshell both halves of the fiberglass sleeve around your pipe FIRMLY and clamp in place.



- 8) Clean up excess adhesive that should have oozed from the clamshell and allow a full cure time.
- 9) After a full cure at the correct temperature range, remove the pipe clamps.
- 10) Abrade the entire exterior surface of the fiberglass sleeve, 360° around. Dust off all parts.
- 11) Install Retrofit-S fitting per it's installation manual, to both the wall and fiberglass sleeve.

ii-FLX-RETROFIT-14B

# MIXING YOUR ADHESIVE

Your adhesive should be stored in a cool place until ready to be mixed. You should warm your adhesive and fiberglass fitting components if the ambient temperature is below 70°F.

**DO NOT MIX MORE THAN ONE CAN AT A TIME**  
**DO NOT ATTEMPT TO MIX HALF A CAN**  
**ONLY USE 1 BOTTLE OF CATALYST PER ADHESIVE CAN**

## ⚠ CRITICAL

USE ONLY BRAVO SYSTEMS ADHESIVE WHEN INSTALLING THIS FITTING TO FIBERGLASS PIPE OR CONDUIT  
DO NOT SUBSTITUTE ADHESIVES, MIX THEM OR ADD LIQUIDS SUCH AS WATER OR ANOTHER RESIN. DO NOT USE ANOTHER CATALYST OTHER THAN WHAT IS PROVIDED.

## ⚠ CRITICAL

ADHESIVE HAS AN ACTIVE COLORANT

ADD CATALYST TO ADHESIVE AND MIX THOROUGHLY UNTIL THE COLOR IS EVEN AND CONSISTENT WITH NO SWIRLS



# CAUTION

## WINTER WARNING


**FOR COLD WEATHER AT 50°F DEGREES OR LESS:  
OBSERVE AND FOLLOW THE WARNINGS BELOW**

BRAVO SYSTEMS FF-SERIES FLANGE FITTINGS AND F-SERIES FITTINGS ARE THICKER THAN THE TYPICAL FIBERGLASS CLAMSHELLS COMMONLY INSTALLED IN FIBERGLASS PIPING APPLICATIONS.

YOU MUST APPLY ADEQUATE HEAT TO THE PARTS AND BONDING ADHESIVES TO ALLOW A FULL CURE TIME DURING EXTREME COLD TEMPERATURES. FAILING TO ALLOW THE INSTALLATION TO FULLY CURE MAY CAUSE THE ADHESIVE BOND TO THE FITTING TO FAIL.

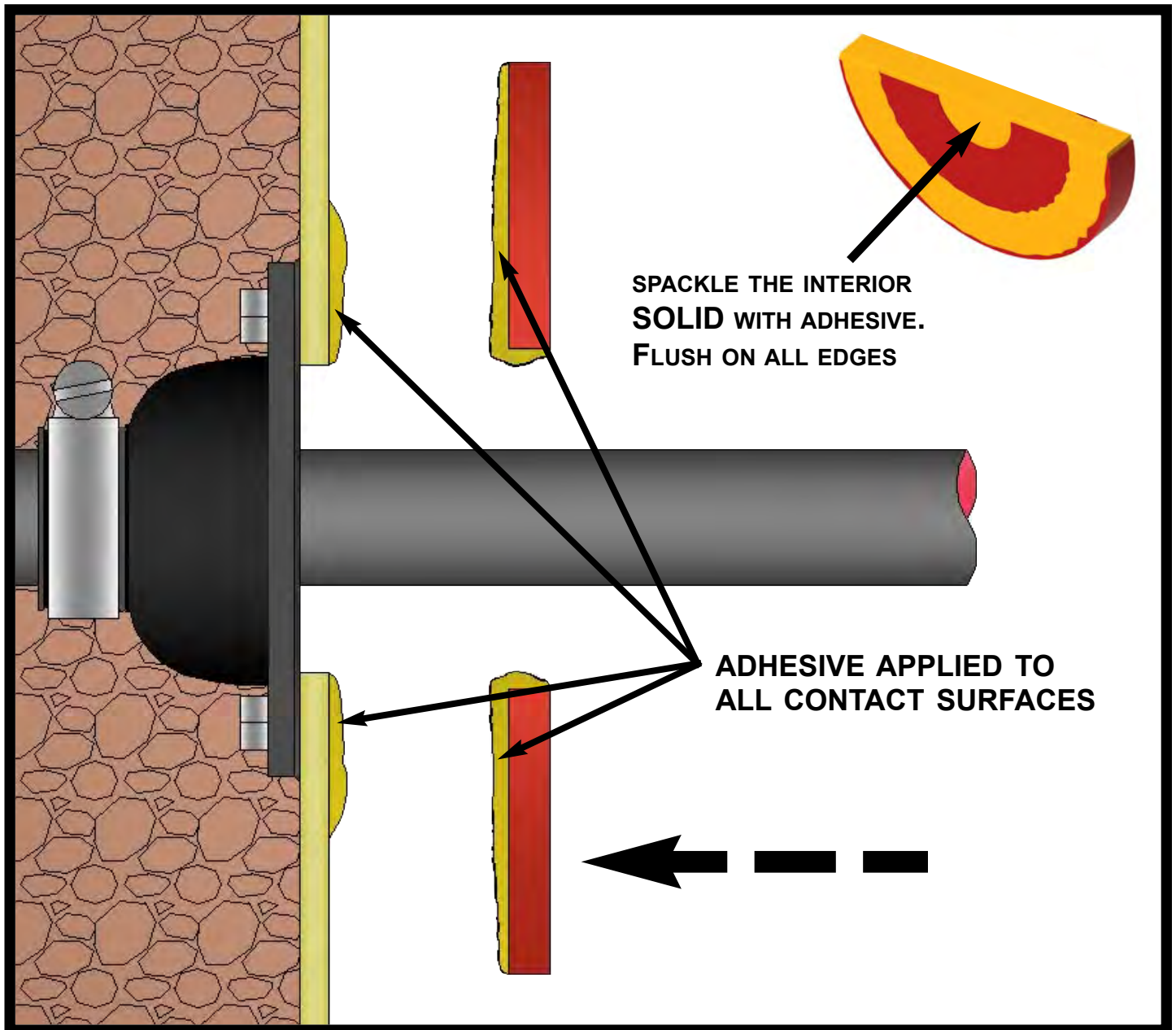


**JUST BEFORE EACH ADHESIVE APPLICATION  
DRY FIT YOUR COMPONENTS ONE LAST TIME**

- 1) PRE-HEAT THE SUMP TO NO MORE THAN 150°F TO ELIMINATE MOISTURE.
- 2) PRE-HEATING COMPONENTS IN EXTREME COLD WEATHER IS CRITICAL:
  - > PRE-HEAT THE FIBERGLASS FITTING THOROUGHLY TO ~100°F
  - > PRE-HEAT THE ADHESIVE TO ~80°F. DO NOT HEAT CATALYST!!
- 3) DO NOT ASSUME THE ADHESIVE IS CURED BECAUSE IT HAS HARDENED ON THE EXTERIOR. IT MAY ONLY BE A CURED “CRUST” IN THIS TEMPERATURE AND ANY MOVEMENT OR WATER TESTING MAY CAUSE DELAMINATION AND TOTAL FAILURE OF THE BOND.
- 4) DO NOT ADJUST, MOVE, SHIFT OR OTHERWISE DISTURB THE SUMP, FITTINGS OR PIPING DURING THE CURING PROCESS.
- 5)  YOU MUST ENSURE A FULL CURE BEFORE WATER TESTING. FOLLOW YOUR ADHESIVE INSTRUCTIONS FOR TEMPERATURE GUIDELINES.

# STEP A

COMPLETE

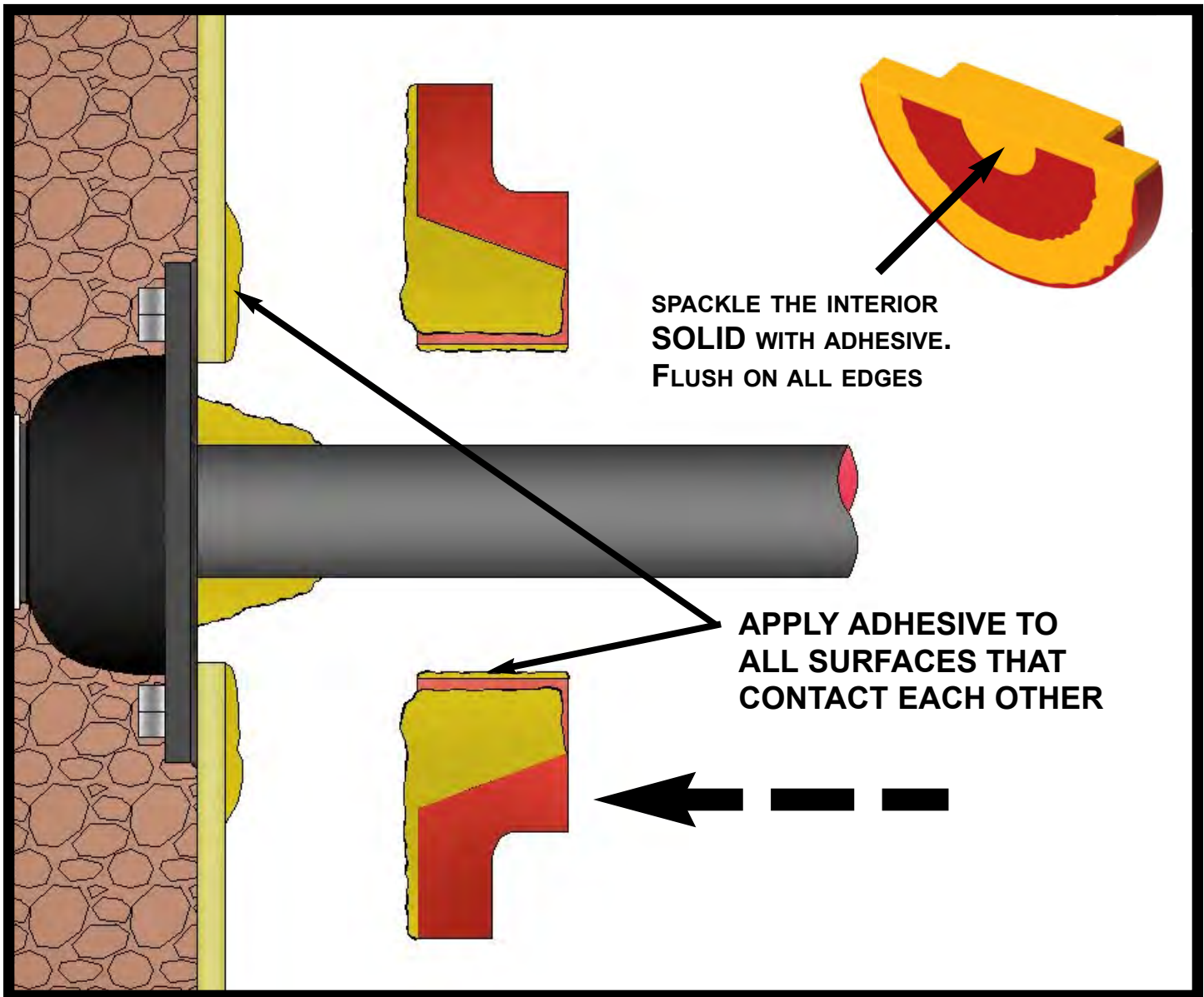


## FOR CURVED WALLS:

Apply Bravo adhesive to all Contact Surfaces; between both halves of the curved flange or wedge where they contact each other, the pipe, the wall, and the face of the flange that will contact the wall. Stick this assembly to the wall by firmly applying manual pressure. Make sure to align the marked stripe. Use provided zip-tie to lock these halves together tightly. In weather below 90°F this should remain in place without any assistance while you prepare the body for gluing.

# STEP B

COMPLETE

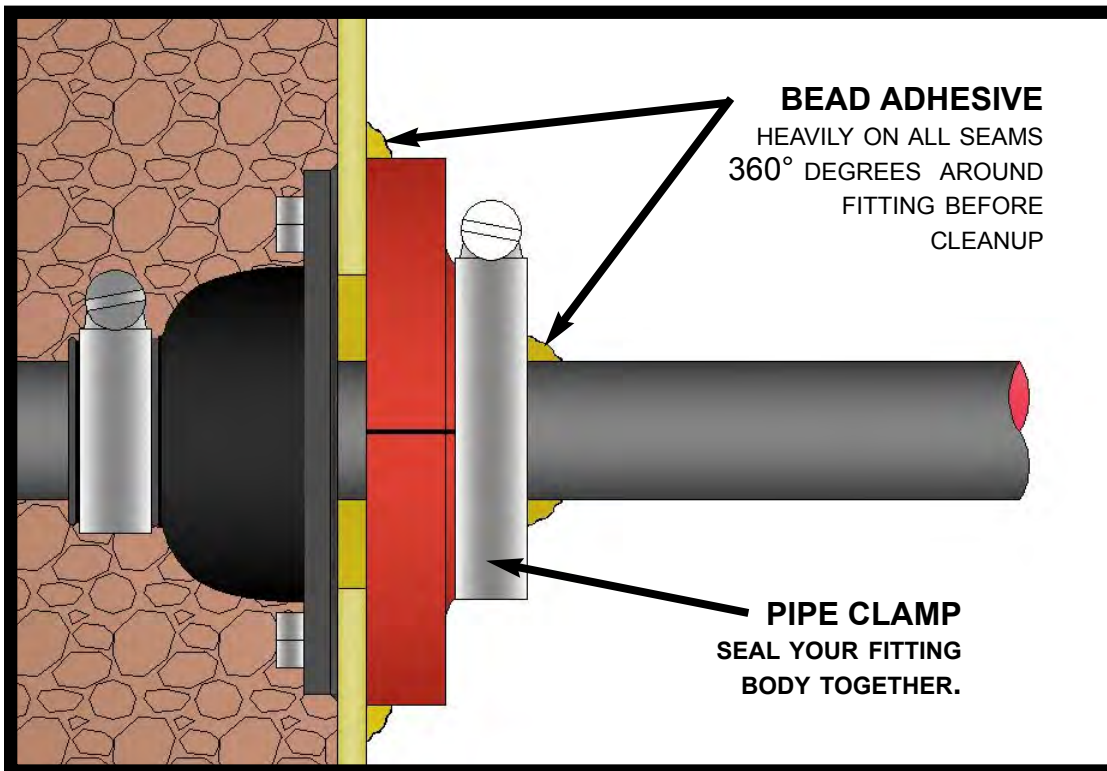


When only installing the body on flat walls, apply adhesive generously to all contact surfaces (including any flanges already on the wall), the pipe, interior of the fitting body, the surfaces of the fitting halves that will meet each other and the face of the body that will contact the curved flange or bare wall. Be generous on the interior, this is an area where a large amount of adhesive is critical. You need to gap-fill any air pockets.

**ADHESIVE SHOULD BE PACKED HEAVY ON THE INTERIOR !  
ENSURE THAT YOU HAVE FULL ADHESIVE CONTACT !**

# STEP C

COMPLETE



Stick this assembly to the wall and apply a strong pressure to push the halves together and against the wall, aligning the marked stripe. When joined, rotating the fitting back and forth helps.

Adhesive should ooze from every seam and joint while pushing the fitting halves together against the pipe and wall. Clean the face of the fitting with acetone or equivalent and remove excess adhesive. You want the fitting clean enough to remove the pipe clamp after the fitting cures.

Use provided pipe clamp to secure the fitting halves to each other. More adhesive may ooze from the split seams as you tighten, re-clean as necessary.

## **LET THE FITTING(S) CURE DO NOT CAUSE PIPE OR CONDUITS TO MOVE OR TWIST DURING CURE**

After a full cure, remove the pipe clamp holding the two fitting halves together. If it is too difficult to remove and appears to be bonded in place, do not force it off.

# STEP D LAKE TESTING (Water Testing):

After the F-Series Retrofit-S Fittings are installed and have fully cured, water level test to a maximum of 2" above the highest penetration fitting on the sump. Follow local regulations.