



Link-Pipe Pressure Seal[™] (Jacketed) Installation Tips

Pressure Seal[™] (Jacketed) Sleeve



Product Series "PSJ"

Pressure Pipes

Pipe Materials:

- Concrete
- Reinforced Concrete
- Steel
- Cast Iron
- PVC
- HDPE

Pipe Diameter:

Ø4" to 36"

Link-Pipe Jacketed Pressure Seal[™] Sleeve has two layers from different materials.*

The inner perforated SST layer is mechanically locked in place and does not depend on internal or external pressure changes.

The outer resilient layer is compressed between SST core and a host pipe wall. The diameter of this layer varies with the plastic host pipe or CIPP liner diameter which depends on operation pressure and temperature.

This product seals infiltration or exfiltration leaks up to pressure 10psi.

*US patent Pending

Recommended Sealant:

Link-Pipe Inc. recommends the use of the **Link-Pipe Jacketed Sewer Sealer[™] Sleeve** with **Sikaflex-221 Adhesive Sealant** for the repair of leaking joints up to pressure 10psi. The **Sikaflex-221** together with the **Jacketed Sewer Sealer[™]** forms a rubber-like structure, with excellent sealing capability.

Warnings:

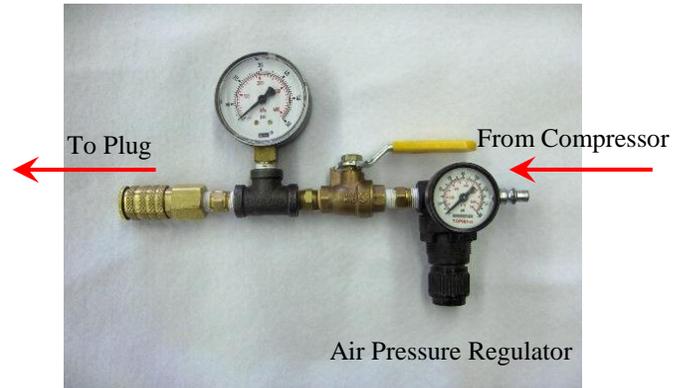
1. The **Sikaflex-221** cures by reaction with atmospheric moisture. If water is sprayed on the applied **Sikaflex-221**, or otherwise the adhesive gets wet, the sleeve should be installed within 1 hour after which, if the adhesive begins to thicken, the sealing quality may be lost. Although the adhesive is slow acting, no time should be wasted after the **Sikaflex-221** comes into contact with moisture.
2. The installed Sleeve transfers pressure to the host pipe. For this reason, the host pipe should not be made from materials that can easily be damaged. Sleeves should be used for **sealing joints and circumferential cracks only**. Host pipe should be **clean**, dry, and free from all traces of grease, oil and dust.
3. Once open, the cartridge should be used up without delay. To extend the open cartridge life up to few days we recommend sealing the open cartridge with moisture-proof adhesive tape. A more detailed description is available in the **Sikaflex-221** Product Data Sheet.

Preparation for the Sleeve Installation:

The Sleeve comes assembled on the Plug, so carefully remove the Plug / Sleeve assembly from the package (Pic.1). Don't use sharp knife in order not to damage rubber parts in the box!



Pic.1



Pic.2

Installation:

1. Check the Sleeve location on the Plug. If the sleeve is moved, center it on the Plug.
2. Attach Air Hose to the Plug, and Air Pressure Regulator (Pic.2) to the second end of the Air Hose.

Connect Regulator with Air Compressor with another Air Hose. Attach transportation cables and provide a CCTV camera with corresponding cables (Pic.3).



Pic.3



Pic.4

3. For the plug/sleeve assembly traveling, carefully inflate the plug a little bit just to snug the sleeve in place. If too much pressure is applied, the sleeve may prematurely open and then control may be lost when the assembly is being transported in the sewer.
4. Apply **Sikaflex-221** evenly to cover the Rubber Jacket in the areas of the protruding O-Rings. The thickness of the applied adhesive bands is approximately 1 to 3mm. No gaps in the applied grout are allowed. To distribute adhesive evenly a paint roller is recommended. Depend on what is more convenient **Sikaflex-221** might be applied on the Sleeve in vertical or horizontal position (Pic.4).
5. To shorten the curing time a slight water spray can be applied (Pic.5)
6. Pull the plug/sleeve assembly to the repair site. For the purpose of keeping good control over the installation process, the installer must monitor the accuracy of positioning the plug/sleeve assembly over the intended repair site. It is always



Manufacturer of No-Dig Pipe Repair Products

helpful to accurately predetermine the distance from pipe entrance at the Manhole to the damage, and then marking the camera cable for easy reference.

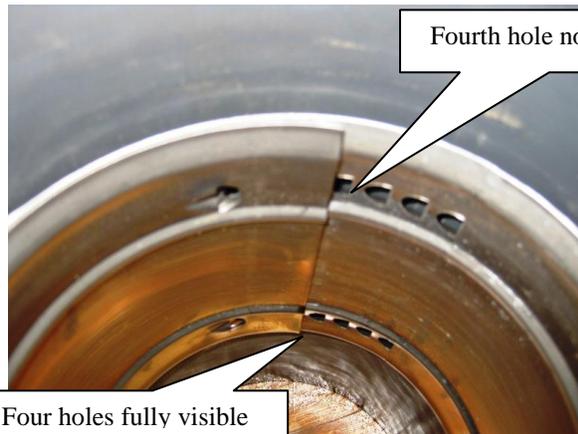
- **Note: Use Cable Tie to locate of the SLEEVE accurately. See Pic.6. The Cable Tie should touch leaking joint, or whatever is the target point. Then pull the Plug / Sleeve assembly so the Cable Tie touches the target location: Center of a hole, edge of a joint, end point of cracked area of the pipe. Then pull the distance on the transport cable so the sleeve will cover the target. In case of a leaking joint, pull the distance from Cable Tie to center of the sleeve.**



Pic.5

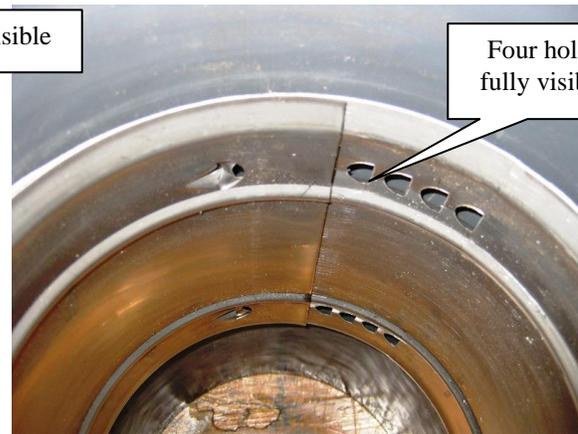


Pic.6



Four holes fully visible

Pic.7 (Holes quantity shown just for reference)



Four holes fully visible

Pic.8 (Holes quantity shown just for reference)

- To install the sleeve, bring the air pressure to 50 - 60 psi. Check the air pressure in the hose. When it is as high as planned, release it slowly.
- When air pressure is released, check with the camera that all locks are engaged along a single row (Pic.7); if locks are not engaged along a single row, insert the plug again, move the plug to the sleeve end with smaller diameter and apply 5psi more pressure. Check again (Pic.8).
- Wait for 24 hours before putting the host pipe into service.

For more information, please call Lembit (Lem) Maimets or Danny Gan at 1-800-265-5696.