

LINK-PIPE®
INC.

Manufacturer of No-Dig Pipe Repair Products

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Installation Tips

Link-Pipe SewerSealer™ VD (with Grout)



Recommended Grout:

Link-Pipe Inc. recommends that G-108 Grout be used with Link-Pipe SewerSealer™ VD for infiltration repair. The grout expands slowly and consistently, and forms a rubber-like structure which has excellent sealing capability in conjunction with the SewerSealer™ VD.

Grout Mixing Procedure:

The G-108 grout is supplied in two components (Components A and B). Pour Component B into the container of Component A. Mix thoroughly, shake the container for 30 seconds until adequately mixed.

Grout Reaction		
<i>Grout</i>	<i>Initial Reaction</i>	<i>Gel (Cure) Time</i>
G-108	5 minutes	45 minutes

*Grout reaction starts after coming in contact with water

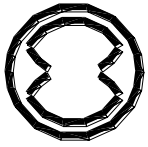
The sleeve must be installed before the grout is cured, Link-Pipe Inc. recommends installing the sleeve before 18 minutes after coming into contact with water for easier installation and better sealing.

*Warning: The grouting mixture provided must be applied to the gasket of its specified sleeve diameter.

Grout Application:

All Grout supplied with the sleeve must be used. Grout should be stored in a dry and cool place at all times. Pour the Grout slowly onto the gasket. Use a paint roller (provided in the package) to work the Grout into the gasket. The area of the gasket under the "flap" (The so-called "flap" is the top loose foam sheet not glued to the sleeve) must be filled first, after which the rubber bands are applied to keep the flap in place. The rest of the gasket is then filled with the remaining Grout.

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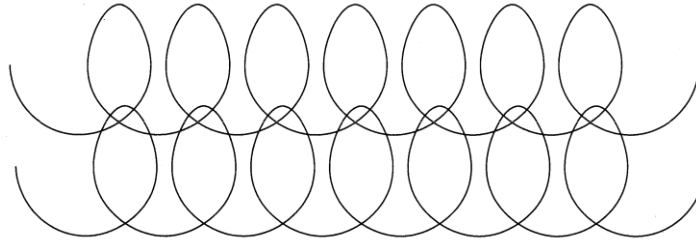
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Grout must be applied evenly (Use the diagram below for technique in creating an even application). The Grout is easily absorbed and could leave some part of the gasket empty if it is not carefully and evenly spread. This may cause a failure in sealing.





Warning:

If there is no infiltration water must be poured onto the grout before the sleeve is inserted into the pipe. The Grout starts reacting after coming into contact with water. If the sleeve is not installed within 18 to 20 minutes after the reaction with water, it may affect the sealing capabilities of the grout. Therefore, no time should be wasted after the Grout is put into contact with water. **The sooner the sleeve is installed, the thinner the grout mixture is, the easier the installation will be and better sealing.**

Installation:

1. Apply the grout to the sleeve (see **Grout Application** above).
2. Insert the plug into the sleeve and center the sleeve on the plug.
3. Orient the sleeve on the plug so that the label is up (at 12 o'clock of the crown of the sleeve).
4. Carefully inflate the plug just enough to keep the sleeve from moving on the plug while traveling in the pipe. *If too much pressure is applied, the sleeve may open prematurely or if the pressure drops, the sleeve may slip.* Both could result in lost control when the assembly is being transported in the sewer.
5. Before inserting the plug-sleeve assembly into the sewer, the sleeve should be wetted with cool water, so that the entire surface of the Grout-filled gasket is wet.
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 locating the plug-sleeve assembly over the intended repair site. It is always helpful to accurately predetermine the distance from pipe entrance at the Manhole to the damaged area, and mark the camera cable for later easy reference.
7. **For continuous (series) installation, overlap 3" to 4" of the small-flared end (with label "This side overlaps installed sleeve") over the installed sleeve (Pic.1).**

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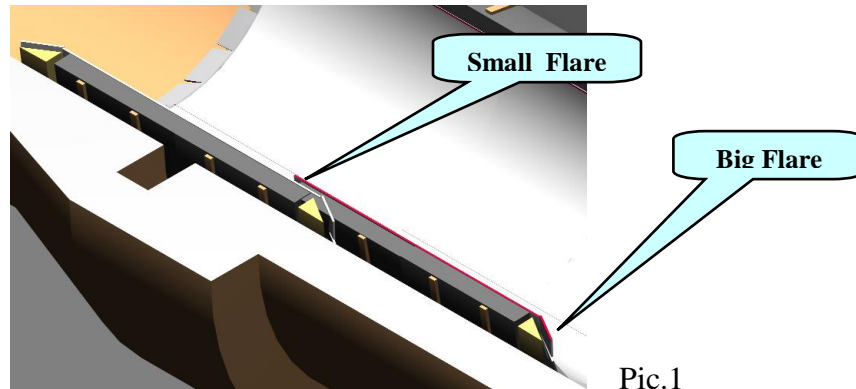


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8. To install the sleeve, bring the air pressure to about 15-20psi above “Calibration pressure”. (Note: Calibration pressure of a Link-Pipe Plug is the pressure required to expand the plug up to the host pipe diameter in free air).
9. Release the air pressure and, with the camera, check to see whether all the locks are engaged in a single row, if not, insert the plug again, move the plug to the small end of the sleeve and apply 5 psi more pressure and repeat the installation.

As already stated, the sleeve should be fully installed within 20 minutes from wetting. More time is rarely needed. It has been noticed that water in the sewer does not affect the Grout if the timing is observed. However, once the installation pressure is applied, the reaction of the Grout speeds up very quickly. The installation should be finished without delay.

It is not a problem if water backs up during the installation and the camera is obstructed. Simply apply the prescribed pressure with an added 5-psi and do it all within the 20 minutes of allocated time.

If you feel not comfortable with this instruction, **CONTACT LINK-PIPE BEFORE INSTALLATION.**
For more information, please call Lembit (Lem) Maimets or Danny Gan at 1-800-265-5696.

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