



Installation Tips Link-Pipe Grouting Sleeve (G-200)

Recommended Grout:

Link-Pipe Inc. recommends that **G-200 Grout** is used with **Link-Pipe Grouting sleeve™** for structural repair (not for infiltration repair). The G-200 grout expands about 7 times, and, together with the Grouting sleeve™, forms a moderately rigid structure, with excellent sealing capability, and completely restored structural integrity.

Grout Application:

All Grout supplied with the sleeve must be used. (See "Grout Quantity" below).

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. **Grout must be applied evenly. 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:

Water must be poured onto the Grout before the sleeve is inserted into the pipe. The Grout starts reacting within 18 to 20 minutes after coming into contact with water. If the sleeve is not installed within 18 to 20 minutes after the reaction with water starts, the sleeve could be ruined. Therefore, no time should be wasted after the Grout is put into contact with water. **The sooner this is done, the thinner the grout mixture is, resulting in an easier installation and better sealing.**

Installation:

1. Apply the Grout onto the sleeve gasket (see **Grout Application**).
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 a little bit just 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 flushed over 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. **(For the F1 sleeve, overlap 2" of the unflared end to the installed sleeve.)**
7. To install the sleeve, bring the air pressure to about 10-psi above "Calibration pressure". (Note: Calibration pressure of a Link-Pipe Plug is the pressure required to expand the plug so that it makes contact with the wall of the host pipe).
8. Release the air pressure and, using the camera, check to see if all the locks are engaged; if some locks are not engaged, insert the plug again, move the plug to the unlocked 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 G-200 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 builds up during the installation and the sight is lost. Simply apply the prescribed pressure with an added 5-psi and do it all within the 20 minutes of allocated time.

Sleeve size	Grout Quantity
	Liter(s)

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