

National Liner Introduces Unique Lateral Rehab Technology

National Liner has introduced a new cured-in-place-pipe (CIPP) sewer lateral lining system which the company says is unlike any other lateral rehabilitation system currently available.

"The system represents an entirely new approach to trenchless lateral rehabilitation," says Ray Pavlic, director of marketing for National EnviroTech Group, LLC, supplier of National Liner CIPP systems. "What sets our new system apart is that the process truly is a one-piece system done from the main. We believe our lateral lining system will provide municipal owners enhanced value beyond trenchless lateral lining systems currently available in the marketplace with an overall lower installation cost."

The system is designed to be installed either prior to CIPP lining of sewer mains, or after mainline rehabilitation is complete. The new system is available now for installation by certified National Liner installers.

Pavlic says that differentiated and patented features include an installation procedure that inserts the liner from the main without the need of a clean out. The rigid lateral brim can have an integral stainless steel collar – a patented feature – that permits the installer to complete the lateral lining prior to lining of the mainline, so that the connection at the mainline can be reinstated without damage to the newly-lined lateral.

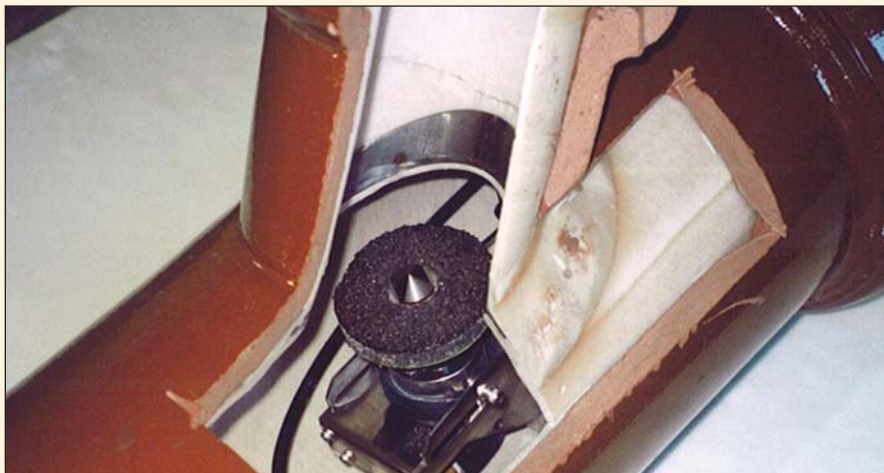
"This methodology creates the best unified seal available on the market today," says Pavlic. "Additionally, the patented tear-away end is the key to not requiring a clean out."

The lateral lining system can be installed in a wye or tee configuration for 4- and 6-inch branch lines in mains from 8 to 18 inches in diameter.

Procedure

After inspecting the lateral pipe to be re-lined, installing shut-off plugs, placing bypass lines as required, removing any obstructions found during inspection, the lining procedure with the new system includes these steps:

- A pressure bag containing lining for the lateral is mounted on a robot, introduced into the mainline, and moved into position for attachment of the liner to the opening of the lateral pipe;



- Using water or air pressure, the liner is inverted and inserted in the lateral;

- When inversion is complete, steam or hot air is introduced into the liner to begin the curing process which requires about 45 minutes. After the liner is hardened, the pressure bag is removed; and

- The completed liner is inspected by a closed-circuit-television camera. Before introduction of the new liner product, the pipe is extensively and successfully tested in a variety of conditions.

Standard lengths of 3 feet and 33 feet can be installed in approximately 1½ to two hours. Linings between these standard lengths or longer than 33 feet can be accomplished with prior planning by the installer.

"A three-man crew typically can complete three to five laterals in an 8-hour day using the same polyester or vinylester resins standard for lining mainlines," says Pavlic.

A crew usually has two vehicles: a CCTV/cutter truck and a support van carrying other necessary tools and equipment.

Pavlic says that among lateral lining technologies available today, the new National Liner system offers superior durability, hydraulic integrity, low energy consumption during installation, extended life to existing laterals and overall lower cost compared to dig-and-replace methods.

"Combined with National Liner's CIPP technology for mainlines," Pavlic concludes, "we can offer municipalities an all-in-one process to rehabilitate and extend the life of sewer systems. We also can provide municipalities and sewer districts with

a unified sealed system to stop inflow and infiltration (I&I)."

FOR MORE INFORMATION:
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