SPR™EX

Liner expands when installed to create a tight fitting solution for trenchless rehabilitation

Benefits of SPR™EX at a glance
- Diameters from 8” - 42”
- Tight fitting liner - no grout required
- Structural liner
- Suitable for gravity flow sanitary sewer, stormwater & culvert applications
- Meets ASTM F1741 standards & Greenbook

PRODUCT DESCRIPTION

The SPR™EX Spiral Wound process restores the hydraulic efficiency, reliability and integrity of aging sewers, storm drains and culverts. SPR™EX is a trenchless rehabilitation technology that requires only existing manholes or access chambers to install the liners.

The process consists of a single strip of PVC profile which is fed from an above ground spool into the winding machine located at the base of the manhole or access chamber. The winding equipment spirally winds the PVC profile strip into the deteriorated pipeline at a diameter initially smaller than the host pipe. The profile forms the liner by locking together in a spiral fashion using the two locking mechanisms on the profile’s edge. The secondary lock is then cut once winding has stopped, allowing the liner to expand and tightly fit against the host pipe. There are no additional steps to fill any annular space.

SPIRAL WOUND TECHNOLOGY

Spiral Wound products are innovative technologies for rehabilitating pipelines without digging. SEKISUI SPR offers 3 different Spiral Wound solutions based upon your application.

SPR™EX
- 8” - 42”
- Tight fit
- Circular shapes

SPR™MTF
- 40” - 60”
- Tight fit
- Circular shapes

SPR™
- 32” - 217”
- Grouted in place
- Circular/non-circular

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The winding machine is located at the bottom of the access chamber. Inside the deteriorated host pipe, SPR™EX profile is spirally wound at a diameter smaller than the host pipe. The liner is held together at the smaller diameter by the secondary lock.

Benefits of SPR™EX Installation

- Tight fitting mechanical process - chemical free
- Truly trenchless - requires only standard manhole or existing access point entry
- Little to no bypass - can operate with some flow in existing pipe
- Small construction footprint
- Portable installation equipment

INNOVATIVE INSTALLATIONS

PVC profile is fed through a manhole or existing chamber from an above ground spool. No site excavation or digging of access pits is required for a fully structural rehabilitation.

Winding is stopped when the liner reaches the upstream access chamber. Expansion of the liner commences by pulling the cutting wire, severing the secondary lock. The liner expands to the host pipe wall, creating a tight fit. As the wire is progressively removed, more profile is fed into the winding machine. The process continues until the expansion is complete.