A unique technology for trenchless rehabilitation of pipelines using the sleeve techniques SAERTEX-LINER

For more than 20 years, the German company SAERTEX multiCom has been offering high-quality innovative building material SAERTEX-LINER made of chemically resistant fiberglass for restoring damaged pipes – the result of its constant search for the best technologies and inventions in this area of construction.

MAIN TYPES OF PRODUCTS:

- **Sleeve SAERTEX-LINER, M Series**
  Use for minor repairs of pipes, diameter from 100 to 400 mm*.
- **Sleeve SAERTEX-LINER, S+ Series**
  Use for pipe damages and deformations of medium and high degree, from 150 to 1600 mm*.
- **Sleeve SAERTEX-LINER, S+ Premium Series**
  Use for pipe damages and deformations of medium and high degree, from 150 to 1600 mm*.
- **Sleeve SAERTEX-LINER, H_2O Series**
  Use for water pipe damages and deformations of medium and high degree, from 200 to 900 mm.

* These recommendations on the use of the sleeve are given for reference purposes only.
The Series and wall thickness of SAERTEX-LINER shall be calculated according to the design requirements.

20 reasons,

why the rehabilitation of pipelines using the polymer sleeve SAERTEX-LINER is being chosen?

1 improvement in the efficiency of rehabilitating pipes for runoff, storm drain and water disposal systems and **extension of the service life of pipes for a period of more than 50 years**.

2 implementation of progressive technologies and, accordingly, **use of new materials** that have a positive impact on the whole process of rehabilitation.

3 in modern conditions of infrastructure development in cities, given the presence of an intricate network of engineering communications, dense urban development, a complex transport situation, **no earthwork is required** whatsoever.

4 **a less costly way** than laying new pipes, which is relevant in modern conditions of saving money.

5 **elimination of risks associated with the collapse of buildings**, the sinking of foundations, the displacement of underground structures, the damages to structures of various purposes, the disruption to traffic (if the well is not located on the roadway).

6 **may be applied at any depth of the pipes** (in the ground or in crawlways) and it does not depend on the type of soils surrounding the pipeline.

7 **reduction in costs** for design, approval and construction through the use of the existing pipeline route.

8 **complete safety for communications** passing nearby.

9 high laying speed and **short installation time.**

10 **minimum size of the construction site,** because no use of bulky construction machinery and equipment is required.

11 **minimum reduction in the cross-section** of the existing pipeline and even an increase in the flow velocity due to a decrease in the roughness of inner surface's material.

12 **high corrosion resistance** and abrasion resistance.

13 **full ecological compatibility**, because all materials have the appropriate certificates.

14 **all types of cross-sections** (circular, ovaloid, throat and box profiles).

15 **rehabilitation of sections with angles** up to 30 degrees.

16 **low energy consumption.**

17 wall thickness from 3 to 15 mm, diameters from 100 to 1600 mm.

18 **continuous improvement** with market orientation.

19 **high physical and mechanical characteristics** of the hardened sleeve, which proves the quality.

20 continuous **free training** of customers.

ESTIN TRADING COMPANY

SAERTEX multiCom®

Installing the liner **in 4 steps**: quickly, efficiently and economically

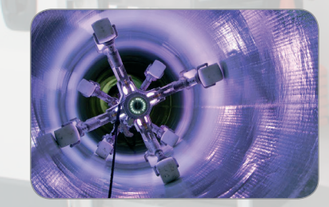
Step 1
08.00

- Laying a slide film for easy work with a liner before starting installation
- Installing working packers at the beginning of the liner
- Retracting the liner with a winch

Step 2
09.00

- Mounting the packers at the end of the liner
- Mounting a connecting sleeve and a special measuring sensor between the packers and an UV-emitter

Step 3
10.00



- Installing the liner using compressed air
- Curing under the influence of emission or water vapor (depending on the chosen method)

Step 4
12.00

- Removing the packers from the ends of the liner after curing
- Removing the inner film (not required when installing the Premium Series liner)
- Checking for leaks
- Commissioning the repaired section

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Trenchless rehabilitation of pipes using the technique of glass-plastic sleeve **SAERTEX-LINER**

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EFFICIENTLY. ECOLOGICALLY. ECONOMICALLY.