SAERTEX-LINER® H_2O

POTABLE WATER APPROVALS WORLDWIDE

Pressure-resistant, hygienic, award-winning: SAERTEX-LINER® H_2O offers superior mechanical characteristics for the trenchless rehabilitation of potable water supply lines using the UV-CIPP process. Our UV-cured GRP pipe liner is approved in over 13 countries and won the ISTT Innovation Award in 2019. It is available in two design options:

- Type S+: a cost-effective alternative for low operating pressures up to 1 bar
- Type S+ XR: suitable for potable water supply lines at pressures up to 33 bar

SUPERIOR STRUCTURAL PROPERTIES

PROVEN INNOVATIVE TECHNOLOGY ON OVER 300 INSTALLATIONS

SAERTEX-LINER® H_2O has been used on 300 UV-CIPP installations on over 100 projects to date and has proven itself worldwide – from Berlin to Valencia, Shanghai to Stockholm, and Moscow to New Jersey.

ADVANCED HYDRAULIC ENGINEERING

Smooth surfaces coupled with low wall thickness maximize flow rate in supply pipes.

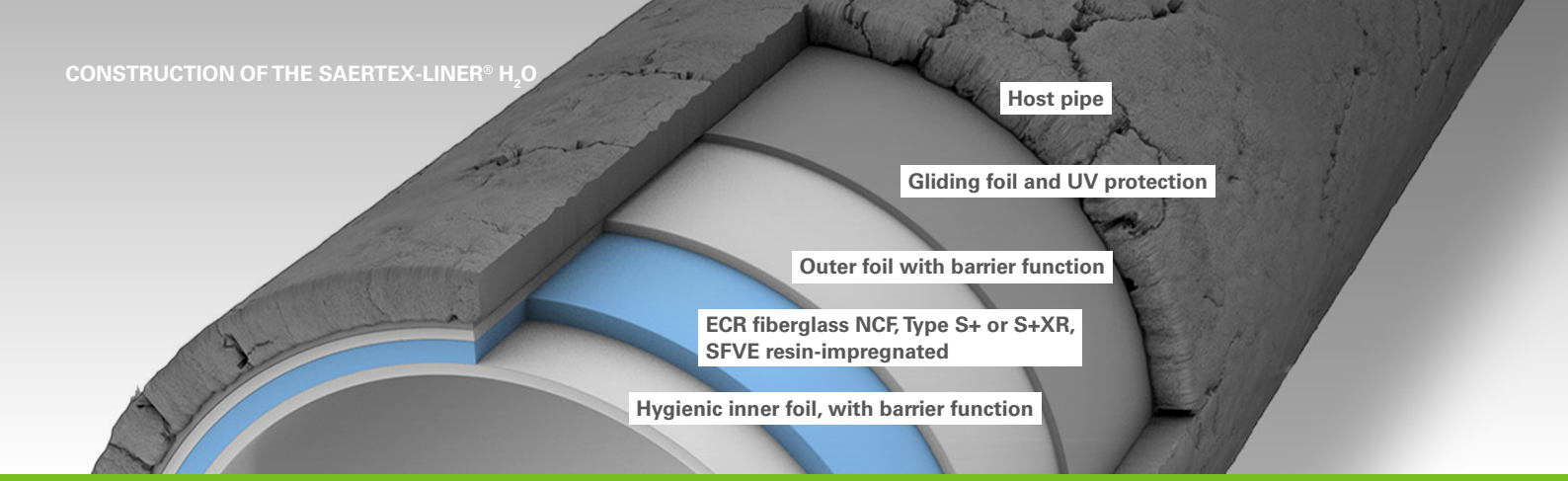
FULLY STRUCTURAL

The tight-fitting, independent pipe liner absorbs inner and outer loads and withstands pressures up to 33 bar. It is also certified to Class A (DIN EN ISO 11295) and to Class IV (AWWA M28).

CUSTOMIZED SOLUTIONS WITH SUPPORT SERVICES

Our wide range of services, including ongoing support from our product experts and engineers, helps ensure the smooth progress of your construction project from the conception phase through to its successful completion.

CONSTRUCTION OF THE SAERTEX-LINER® H_2O



UV-CIPP FOR POTABLE WATER SUPPLY LINES

1 Select your UV-CIPP product application.

PRODUCT APPLICATION	SAERTEX-LINER® H_2O
Utilization	Potable water
Resin Type	SFVE
Temperature and chemical resistance	NSF/ANSI Standard 41, AS/NZS 4020 and other countries*
Styrene-free	Yes

2 Engineered to match profile, dimensions and application requirements.

DESIGN	TYPE S+	TYPE S+XR
Host pipe profile	Circular	Circular
Application	Pressure	Pressure
Operating pressure [BAR]	up to 1	up to 33
Fully structural**	◉	◉
Diameter [mm]	250–1,200	250–1,200
Structural wall thickness [mm]	4–12	4.3–12.3
Max. length[m]	up to 350 [longer on request]	

3 Outer foils are standard. Inner foil can be selected based on application.

FOILS		
Outer foils:		
— Integrated gliding foil for ease of installation UV light protection	◉	◉
— Resin encapsuling barrier	◉	◉
Inner foil with barrier function:		
— Hygienic	◉	◉

MECHANICAL CHARACTERISTICS	TYPE S+	TYPE S+XR
Short-term circumferential E modulus [N/mm²]	≥ 12,950	≥ 20,500
Long-term circumferential E modulus [N/mm²]	9,450***	16,000
Short-term bending E modulus [N/mm²]	≥ 15,000	≥ 16,800
Short-term bending stress [N/mm²]	≥ 230	≥ 270
Long-term bending stress [N/mm²]	165***	210
Reduction factor (acc. to DIN EN 761):		
– 50 years [after 10,000 h]	1.37***	1.28

See a virtual lining project!

* Australia, New Zealand, Brazil, China, Israel, Italy, Poland, Russia, Slovakia, Spain, Czech Republic, Belarus

** Design classification for pressure applications | A DIN EN ISO 11295 // class IV AWWA M28

*** After 2,000 h of testing

OUR GOAL: YOUR PROJECT'S SUCCESS

PROJECT SUPPORT FROM BEGINNING TO END

- Engineering services, e.g. feasibility studies, structural calculations according to DWA and ASTM, approvals, etc.
- Practical training programs for your team
- Technical support from our application engineers
- UV-CIPP installation equipment to rent or buy

A SIX-MONTH SHELF LIFE MEANS GREATER FLEXIBILITY

SAERTEX-LINER® H_2O impregnated at our plant and properly stored at your facility has a maximum stable shelf life of six months, allowing you some flexibility on your project.