

# SAERTEX-LINER® H<sub>2</sub>O

## POTABLE WATER APPROVALS WORLDWIDE



**Pressure-resistant, hygienic, award-winning: SAERTEX-LINER® H<sub>2</sub>O 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 14 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<sub>2</sub>O 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.

### FULLY STRUCTURAL

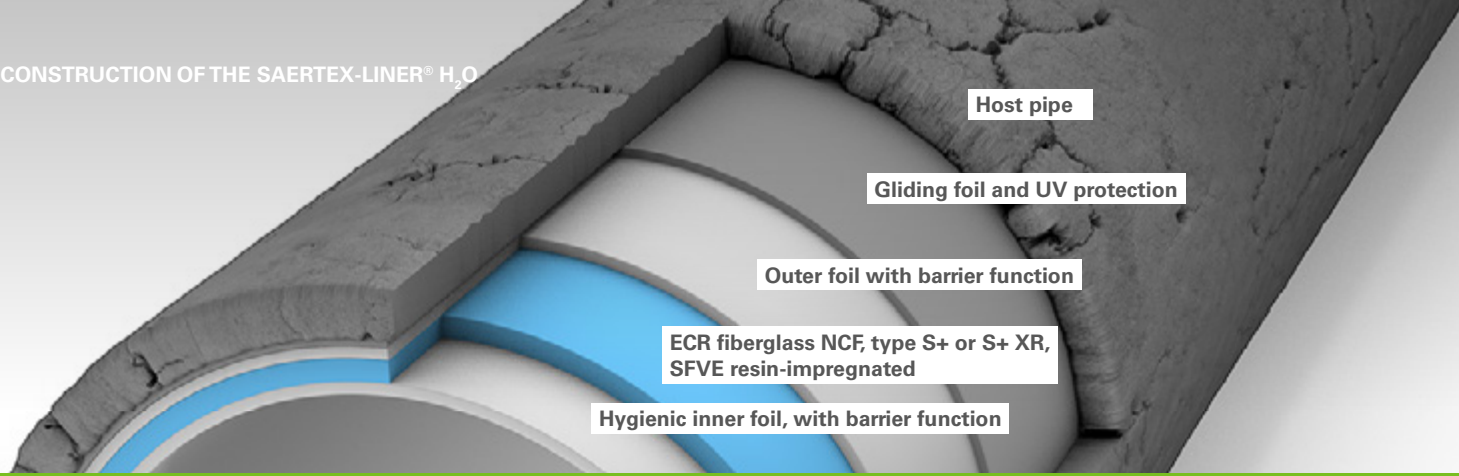
The tight-fitting, independent pipe liner absorbs inner and outer loads and withstands pressures up to 33 bar. It is also certified to Class A (DIN EN ISO 11295) and to Class IV (AWWA M28).

### ADVANCED HYDRAULIC ENGINEERING

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

### 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.



# UV-CIPP FOR POTABLE WATER SUPPLY LINES

**1** Select your UV-CIPP product application.

PRODUCT APPLICATION	SAERTEX-LINER® H <sub>2</sub> O
Utilization	Potable water
Resin type	SFVE
Temperature and chemical resistance	W270, KTW, NSF 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]	250–1200	250–1200
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 encapsulating barrier	☉	☉
Inner foil with barrier function:		
– Hygienic	☉	☉

MECHANICAL CHARACTERISTICS	TYPE S+	TYPE S+ XR
Short-term circumferential E modulus [N/mm <sup>2</sup> ]	≥ 12,950	≥ 20,500
Long-term circumferential E modulus [N/mm <sup>2</sup> ]	9,450***	16,000
Short-term bending E modulus [N/mm <sup>2</sup> ]	≥ 15,000	≥ 16,800
Short-term bending stress [N/mm <sup>2</sup> ]	≥ 230	≥ 270
Long-term bending stress [N/mm <sup>2</sup> ]	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, Belarus, Brazil, China, Czech Republic, Israel, Italy, New Zealand, Poland, Russia, Slovakia, Spain  
 \*\* Design classification for pressure applications | Class IV AWWA M28  
 \*\*\* After 2,000h 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<sub>2</sub>O 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.