



# SAERTEX-LINER® INDUSTRY

## FOR CORROSIVE, HIGH-TEMP WASTEWATER



**SAERTEX-LINER® INDUSTRY** is a combination of vinyl ester (VE) and ECR fiberglass that has been engineered to withstand corrosive chemical environments and higher temperatures. Based on our proven S+ liner design, it is ideal for use in the trenchless rehabilitation of industrial wastewater pipes.

### FOR INDUSTRIAL APPLICATIONS

#### **RESISTANT TO HIGH TEMPS AND CORROSIVE CHEMICALS**

By combining the chemical and corrosion resistance of ECR fiberglass with the chemical resistance of vinyl ester (VE), SAERTEX-LINER® INDUSTRY is engineered to withstand the harsh effects of industrial wastewater. Since the liner's high-resistance properties are dependent on the temperature and concentration of the chemicals, our product engineers will consult with you to determine if it is suitable for your application.

#### **TECHNICAL SERVICE LIFE OF 100 YEARS**

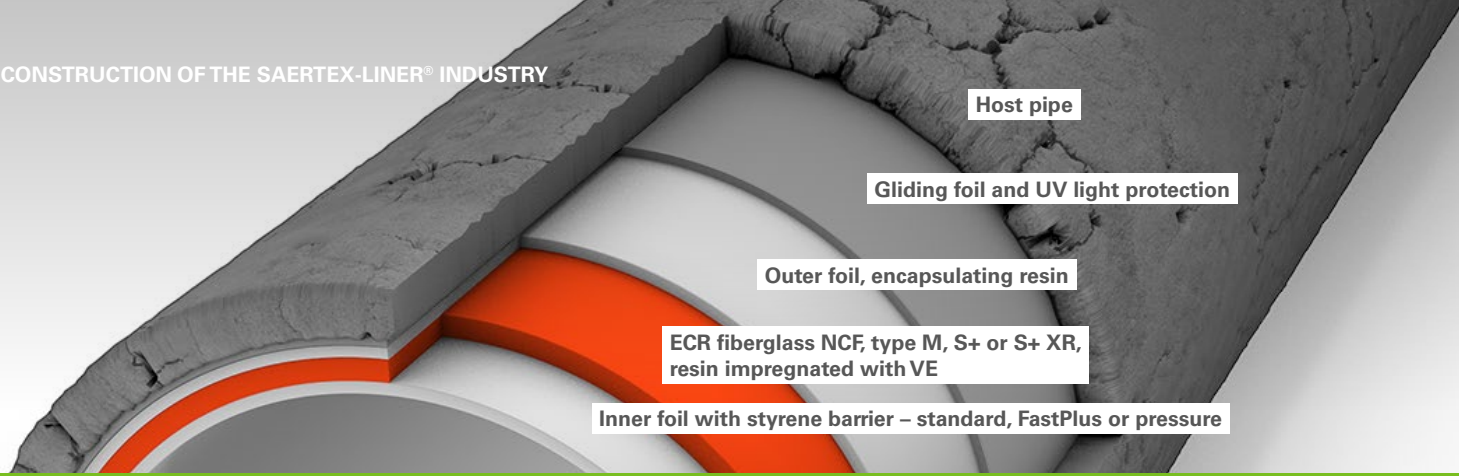
Our unique ECR fiberglass reinforcement is based on multiaxial fabric technology that withstands high mechanical stresses. SAERTEX-LINER® INDUSTRY offers the same excellent reduction factor in the 20,000-hour test as our SAERTEX-LINER® MULTI, S+ product, which means a technical service life of 100 years.

#### **INSTALLATION-FRIENDLY AND TIME-SAVING**

Low wall thicknesses shorten curing times, and the reduced weight of the liner optimizes handling. The liner's construction allows higher pulling forces and prevents it from overstretching. The optional "FastPlus" inner foil remains in the liner after curing, saving time.

#### **INTEGRATED GLIDING AND UV LIGHT PROTECTION FOIL**

SAERTEX-LINER® INDUSTRY offers an integrated gliding and UV light protection foil as standard; there is no extra charge. This eliminates an additional gliding foil for liners up to DN 600 and a max. weight of 2.5 tons.



# UV-CIPP FOR INDUSTRIAL WASTEWATER PIPES

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

PRODUCT APPLICATION	SAERTEX-LINER® INDUSTRY
Utilization	Corrosive, high-temp wastewater
Resin type	VE
Temperature and chemical resistance	+++
Styrene-free	no

**2** Engineered to match profile, dimensions and application requirements.

DESIGN	TYPE S+
Host pipe profile	All types
Fully structural	☉
Diameter [mm]	150–1000
Structural wall thickness [mm]	3–10
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	☉
– Resin encapsulating barrier	☉
Inner foil with barrier function:	
– Standard (temporary)	☉
– FastPlus (semi-permanent)	Optional

MECHANICAL CHARACTERISTICS	TYPE S+ and TYPE S+ XR
Short-term circumferential E modulus [N/mm <sup>2</sup> ]	≥ 20,500
Long-term circumferential E modulus [N/mm <sup>2</sup> ]	16,000
Short-term bending E modulus [N/mm <sup>2</sup> ]	≥ 16,800
Short-term bending stress [N/mm <sup>2</sup> ]	≥ 270
Long-term bending stress [N/mm <sup>2</sup> ]	210
Reduction factor (acc. to DIN EN 761):	
– 50 years [after 10,000 h]	1.28
– 100 years [after 20,000 h]	1.31

\* FastPlus available for DN 200 to DN 1000 max wall thickness 10 mm

See a virtual lining project!



## OPTIMIZED ALL-ROUND PERFORMANCE

### FASTPLUS INNER FOIL: A TIME-SAVING OPTION THAT PROVIDES EXTRA PROTECTION

This rugged inner foil remains inside the liner after curing and saves your team about 1 hour of installation time for every 100 meters of liner. FastPlus also makes it easier to introduce the UV source, even under difficult installation conditions.

### CHEMICAL RESISTANCE TESTS FOR YOUR SPECIFIC APPLICATION

Once you provide information on the type of chemicals, their concentration, and the maximum temperatures of the flow media, our liners are then specifically tested to ensure their suitability for your application. Our product specialists will be glad to advise you.