

# SAERTEX-LINER<sup>®</sup> INDUSTRY FOR CORROSIVE, HIGH-TEMP WASTEWATER

SAERTEX-LINER<sup>®</sup> 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.

#### **UV LIGHT AND PROTECTIVE OUTER FOIL**

SAERTEX-LINER INDUSTRY<sup>®</sup> outer foil provides protection from UV light, installation damage, and site contaminates. The outer protective foil also doubles as a glide foil. Please review the instruction manual for details associated with this installation method.

PRODUCT APPLICATION

#### Host pipe

UV light and protective outer foil

SAERTEX-LINER® INDUSTRY

Resin encapsulating barrier

ECR fiberglass NCF, VE

Inner foil with styrene barrier – Standard or FastPlus

## UV-CIPP FOR INDUSTRIAL WASTEWATER PIPES

Select your UV-CIPP product application.

Engineered to match profile, dimensions

and application requirements.

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

Utilization	Corrosive, high-temp wastewater
Resin type	VE
Temperature and chemical resistance	+++
Styrene-free	no
DESIGN	TYPE S+
Host pipe profile	All profiles
Application	Gravity
Operating pressure [psi]	
Fully structural	۲
Diameter [inch]	8–40
Structural wall thickness [mm]	3–10
FOILS	
Outer foils:	
<ul> <li>Protective foil for ease of installation,</li> <li>UV light protection</li> </ul>	۲
<ul> <li>Resin encapsulating barrier</li> </ul>	۲
Inner foil with barrier function:	
– Standard	۲
– FastPlus	Optional
MECHANICAL CHARACTERISTICS	TYPE S+ and TYPE S+ XR
Short-term circumferential E modulus [psi]	≥ 2,973,270
Long-term circumferential E modulus [psi]	2,320,600
Short-term bending E modulus [psi]	≥ 2,436,630
Short-term bending stress [psi]	≥ 39,160

See a virtual lining project!



\* FastPlus available for 8-60 inch diameter range max wall thickness 10 mm

Long-term bending stress [psi]

- 50 years [after 10,000 h]

- 100 years [after 20,000 h]

Reduction factor (acc. to DIN EN 761):

## 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 installation time.

FastPlus also makes it easier to introduce the UV source, even under difficult installation conditions.

### CHEMICAL RESISTANCE TESTS FOR YOUR SPECIFIC APPLICATION

30,455

78%

76%

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.