

SAERTEX-LINER® MULTI

PROVEN THOUSANDS OF TIMES OVER



SAERTEX-LINER® MULTI is an efficient, cost-effective solution that offers industry leading performance. Two design options make this GFR pipe liner the timesaving, flexible and sustainable choice when it comes to the trenchless rehabilitation of municipal wastewater pipes and pressure lines:

- Type S+: strong mechanical properties for numerous applications
- Type S+ XR: suitable for pressure lines up to 33 bar

OUR MOST VERSATILE LINER

INSTALLATION-FRIENDLY CONSTRUCTION

The construction of SAERTEX-LINER® MULTI allows higher pulling forces and prevents the liner from overstretching. Its reduced weight makes for easy handling, and the lower wall thicknesses shorten curing times. The “FastPlus” option saves even more installation time because the inner foil stays in place after curing.

UV LIGHT AND PROTECTIVE OUTER FOIL

SAERTEX-LINER INDUSTRY® 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.

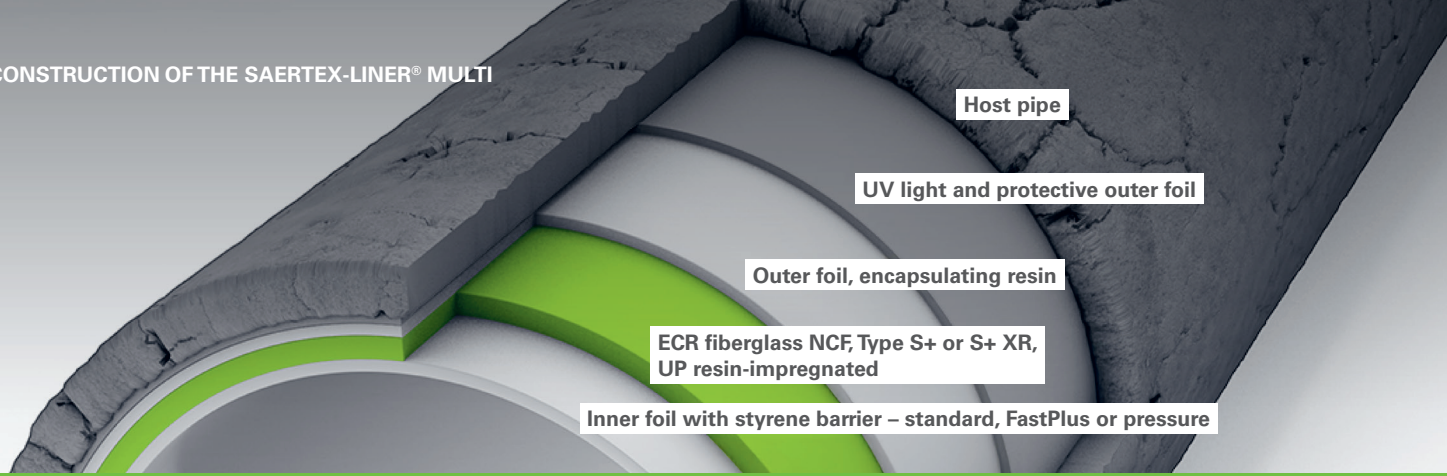
TECHNICAL SERVICE LIFE OF 100 YEARS

The unique ECR fiberglass reinforcement that makes up our liner is based on multiaxial fabric technology that withstands high mechanical stresses and offers a minimum long-term reduction factor after 20,000 hours (acc. to DIN EN 761).

SAERTEX-LINER UPgreen: CO₂-OPTIMIZED

The climate-friendly manufacturing process for our UP resin systems saves an average of 250,000 kg of CO₂ per quarter. On request, we can provide you with a certificate showing the CO₂ savings achieved by your projects.





UV-CIPP FOR MUNICIPAL WASTEWATER PIPES

1 Select your UV-CIPP product application.

PRODUCT APPLICATION	SAERTEX-LINER® MULTI
Utilization	Municipal wastewater and stormwater
Resin type	UP
Temperature and chemical resistance	+
Styrene-free	no

2 Engineered to match profile, dimensions and application requirements.

DESIGN	TYPE S+		TYPE S+ XR
Host pipe profile	All types	Circular	Circular
Application	Gravity	Pressure	Pressure
Operating pressure [BAR]		up to 1	up to 33
Fully structural*	☉	☉	☉
Diameter [mm]	150–1,600	250–1,200	250–1,200
Structural wall thickness [mm]	3–15	4–12	4.3–12.3
Max. length [m]			

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		
– Pressure (permanent)		☉	☉

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

* Design classification for pressure applications | Class IV AWWA M28 | ** FastPlus available for DN 200 to DN 1500 mm diameter range and max wall thickness of 12 mm

See a virtual lining project!



MULTIPLE SAVINGS

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.

APPROVED BY INDEPENDENT BODIES

- ☉ DIBt-Approval: Z-42.3-350
- ☉ CSTB: DTA 17/16-311
- ☉ WRc: PT/458/0620
- ☉ Others on request