



The World's First Vacuum-Controlled Composite System for Pipeline Repair & Reinforcement



COMPLIANCE TO ISO 24817 & ASME PCC-2

WHY STRONGPIPE® OUTPERFORMS

- **Pre-cured systems:** Inflexible, prone to installation errors
- **Wet wrap systems:** Poor saturation & delamination risk
- **STRONGPIPE®:** Combines the advantages of both pre-cured and wet-wrap technologies, utilizing a patented aviation-grade vacuum process to deliver consistent, high-strength results.

TECHNICAL SUPERIORITY VS TRADITIONAL SYSTEMS

Property	Tensile Strength (MPa)	Elasticity Modulus (GPa)	Inter-laminar Shear Strength (MPa)	Shear Strength with Steel (MPa)	Layer Thickness (mm)
TRADITIONAL E-GLASS FIBER	500	≥30	≥8.2	≥8	1.6
STRONGPIPE® S-GLASS FIBER	≥900	≥30	≥20	≥12	0.5-0.6

★ Fatigue resistance around 10 times of E-glass fiber

INDEPENDENT VALIDATION

- **TUV Certified** : Hydrostatic test on 20" damaged pipe
- **Burst Pressure** : 51 MPa with only 5 layers
- **Pressure Cycling** : >1020 cycles without failure
- **Wall Loss Repair** : 63-70% with 8 layers
- **Field Proven** : 10,000+ global applications



Strongpipe® Glass Shield

Advanced Polyurethane Mechanical Protection System



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WHY STRONGPIPE® GLASS SHIELD OUTPERFORMS

- Strong® pipe Glass Shield is an advanced moisture-cure polyurethane composite engineered for low-pressure pipelines (up to 10 bar) and emergency leak repairs. It also functions as an effective Abrasion Resistant Overcoat (ARO) for Horizontal Directional Drilling and other trenchless installation methods.
- Easy to apply, providing reliable protection against corrosion, abrasion, and impact, suitable for both above-ground and underwater applications and repairs.

KEY APPLICATIONS

Pipeline Protection: Road crossings, HDD installations, submerged pipelines, soil to air interface, Splash zone areas, leak repair for low pressure lines & sweating line

Multi-Substrate Compatibility: Excellent adhesion to steel, stainless steel, 3LPE, 3LPP, FBE coatings, shrink sleeves, and protective tapes

TECHNICAL ADVANTAGES

Property	Impact Resistance	Abrasion Resistance	Gouge Resistance	Curing Time	Hardness	Pressure Test
Specification	52J (ASTM G14)	1,540 cycles/mil	21 @ 50kg load	24 min @ 23°C	78 Shore D	Up to 30 bar



STRONGPIPE®
VULCANIZED COMPOSITE PIPE REPAIR & REINFORCEMENT

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STRONGPIPE®

Maximum Strength

Zero Compromise



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