

# FutureWrap Glass Aquasplash

## Technical Summary



**FutureWrap**  
Aquasplash™

Repair system	Glass Aquasplash
<b>Overview</b>	<p>FutureWrap Aquasplash was developed for the repair of all topside and subsea pipework, pipelines (all components), caissons and risers and is based on a glass cloth and a two-part ambient cure epoxy resin. Due to its excellent adhesion strength even in the presence of water, FutureWrap Aquasplash can seal through-wall defects and re-instate the integrity of the damaged/corroded pipework.</p> <p>The technical specification is based on the qualification requirements of ISO 248171.</p>
<b>Applications</b>	Pipework, pipelines (All components), caissons and risers
<b>Defects</b>	Internal, external, through wall
<b>Fiber type</b>	E-glass - tri-axial stitched cloth (0°/45°/-45°)
<b>Resin type</b>	Epoxy resin (two part) – Ambient Cure
<b>Maximum design temperature (0C)</b>	62
<b>Maximum design pressure (through wall defect) (bar)</b>	75
<b>Maximum design pressure (non-through wall defect) (bar)</b>	350
<b>Modulus 0° (GPa)</b>	21
<b>Modulus 90° (GPa)</b>	8.9
<b>Poisson's ratio 0°</b>	0.5
<b>Poisson's ratio 90°</b>	0.21
<b>Shear modulus (GPa)</b>	2
<b>Thermal expansion coefficient 0° (mm/mm/°C * 10<sup>-6</sup>)</b>	26
<b>Thermal expansion coefficient 90° (mm/mm/°C * 10<sup>-6</sup>)</b>	35
<b>Design allowable strain 0° (mm/mm)</b>	0.004
<b>Design allowable strain 90° (mm/mm)</b>	0.004
<b>Energy release rate (J/m<sup>2</sup>)</b>	556.9
<b>Cure time (hrs)</b>	24
<b>Chemical resistance</b>	3<pH<10