



FutureWrap Glycol™

| Repair system | Glycol |
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| Overview | <p>FutureWrap Glycol was developed for the repair of pipework (all components) containing aggressive chemicals on a glass cloth and a two-part post cure epoxy resin. Due to its excellent adhesion strength, FutureWrap Glycol 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> |
| Applications | Pipework (All components) |
| Defects | Internal, external, through wall |
| Fibre type | E-glass - tri-axial stitched cloth (0°/45°/-45°) |
| Resin type | Epoxy resin (two part) – Ambient Cure |
| Maximum design temperature (0C) | 120 |
| 100% exposure to TEG | 90 |
| 100% exposure to methanol | 50 |
| 100% exposure to toluene | 50 |
| Maximum design pressure (through wall defect) (bar) | 50 |
| Maximum design pressure (non-through wall defect) (bar) | 350 |
| Modulus 0° (GPa) | 21 |
| Modulus 90° (GPa) | 8.9 |
| Poisson's ratio 0° | 0.5 |
| Poisson's ratio 90° | 0.21 |
| Shear modulus (GPa) | 2 |
| Thermal expansion coefficient 0° (mm/mm/°C * 10⁻⁶) | 20 |
| Thermal expansion coefficient 90° (mm/mm/°C * 10⁻⁶) | 35 |
| Design allowable strain 0° (mm/mm) | 0.004 |
| Design allowable strain 90° (mm/mm) | 0.004 |
| Energy release rate (J/m²) | 583 |
| Cure time (hrs) | 24 |
| Chemical resistance | 3<pH<10 |