

At A Glance

Technowrap™ Engineered Composite Repairs

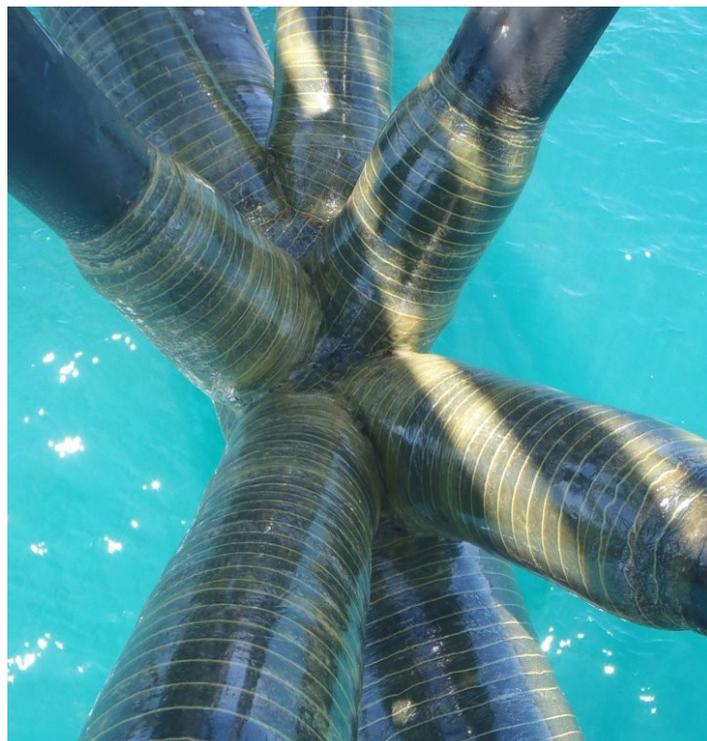


TECHNOWRAP™

ICR's engineered composite division has over twenty-five years' experience in the provision of composite repairs. We offer bespoke, engineered repair solutions capable of rehabilitating damaged pipework, pipelines and structural components using either glass or carbon fibre stitched cloths along with a variety of two-part epoxy resins.

ICR has led the industry in the development and adoption of Composite Repair technology and as a key member of both ASME and ISO committees, ICR's technical expertise is now reflected in the published standards.

Our integrated approach, providing engineering, materials, technician training and installation (all in-house) has enabled us to become the industry specialist with extensive experience dealing with some of the most challenging projects in the industry.



TECHNOWRAP™ COMMON USES

- Pressurised Systems, critical and non-critical (Hydrocarbon Systems) all components, including bends, tees and flange overwraps
- Pipeline repairs
- Repair of corroded roofs, floors, panel and decks using our deck repair system
- Structures, e.g. I-beams, CHS members
- Strengthening and repair of tanks and vessels (shells, supports & nozzle attachments)
- Sealing or structural strengthening of caissons and risers
- Splashzone and subsea repairs (including all wet environments i.e. high humidity).
- Speciality repairs e.g. high ambient, potable water, glycol and methanol

TECHNOWRAP™ APPROVALS

- Technowrap™ is internationally recognised and qualified to both ISO 24817 and ASME PCC-2 Article 4.1.
- Lloyds Register Type Approved
- ABS Design & Manufacturing Approved
- DNV Type Examination Approved

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Technowrap™ Engineered Composite Repairs



TECHNOWRAP™ DESIGN

- Temperature range -75°C to 220°C / -103°F To 428°F
- Internal and External Corrosion
- Through wall defects & live leak sealing
- Pressure tested up to 1400 BarG / 20305 PSI
- Surface Preparation (Adhesion) - SA2.5 (NACE No. 2), ST3, ST2
- Can be applied to any geometry or component and over existing clamps or repairs.
- Structural In-plane load (N/mm) 180

TECHNOWRAP™ ADVANTAGES

- Cost effective, allows for a target repair rather than full replacement.
- Can be applied live – No shutdown required and no impact on production (in most cases)
- Corrosion resistant with limited maintenance
- Long-term alternative to replacement, engineered for up to 20 years
- 24hour Emergency response and support
- Testing is rigorous and exceeds both ISO and ASME standards
- Range of products for different design scenarios, all bespoke
- Long term performance - unrivalled track record, QA/QC, testing and validation
- Requires minimal on-site facilities – simplicity and ease of installation
- Rope Access/Leg Entry – Reaching difficult areas & reducing scaffolding requirements.

