

TECHNOWRAP™ STRUCTURAL STRENGTHENING

GENERAL INFORMATION

Technowrap™ Structural is a carbon based repair system intended for structural strengthening applications in civil engineering projects, such as bridge building and maintenance, and also within the ship building industry. The product is also relevant to the oil and gas industry and can be used in pressure containment situations.

The reinforcement is quadraxial and uni-directional based and works in conjunction with our epoxy resin. Technowrap Structural Strengthening™ is validated to ISO/TS 24817 and ASME PCC-2-2006 with Lloyd's Register "Type Approval" and all repairs come with a lifetime guarantee in excess of up to twenty years. Technowrap Structural Strengthening™ can be applied on pipelines, tanks and vessels and all pipe work geometries including bends, tees, reducers and flanges.

THE FACTS

A carbon based repair system; this product is for structural strengthening applications. It is targeted not only to oil and gas applications, but also other sectors including: civil engineering, ship building and maintenance and construction industries with applications including bridge maintenance. WTR can design Technowrap Structural Strengthening™ repairs for both internal and external defects. As with all Technowrap™ repair systems, Technowrap Structural™ can be used for pressures up to 250 barg/ 3625 psi and temperatures ranging from -75°C to +220°C/ -103 to 428°F.

INSTALLATION

A finite element analysis is used to validate initial repair geometry estimates based on the following criteria -

- Maximum principle strain in the composite repair is always less than 0.25%
- Maximum principle stress in the substrate is always less than allowable stress.

Repairs are applied by certified Technowrap™ Installers who are competent and experienced in the application and installation of Technowrap™ products within your specific industry/geography. With over 450 Technowrap™ Installers worldwide, we can ensure the successful and timely completion of your repairs.

