

Composite Overwrap Repair System

Applications

Oil & Gas Industry, Petrochemical, Power Plants, Water Industry, Palm Oil Mills

iWrap™ composite overwrap repair system is based on high strength composite materials qualified according to ISO 24817, ASME PCC-2 and certified by **Bureau Veritas**.

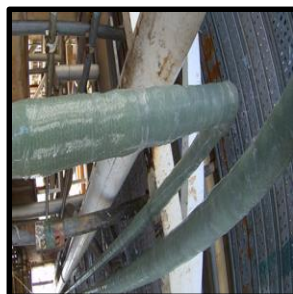
iWrap™ is developed for quick in-situ cost effective repairs for **high service temperature** application. The product application is flexible for tight access and complex shaped piping or pipelines.

Repair Types:

- Type A Repair (Strengthening)
- Type B Repair (Leaks)
- Patch Work

Applications:

- Corrosion Prevention
- Strengthening
- Leak Repair
- Odd Geometry Repair (Tee, Elbow)
- Welding Defect Repair
- Vessel Repair (Patch Work)



Product Range

300°C

iowrap™ HT200

Max Temperature 250°C
Max Pressure 400 bar

iowrap™ HT300

Max Temperature 300°C
Max Pressure 400 bar

180°C

iowrap™ UW

**For underwater application*

Max Temperature 130°C
Max Pressure 30 bar

iowrap™ 100

Max Temperature 180°C
Max Pressure 400 bar

30 bar

400 bar



Product Specifications

PROPERTIES	TYPICAL VALUE
Overwrap System	Epoxy / On-Site Impregnated
Fabric	E-Glass, Quad-Axial
Longitudinal Tensile Strength (MPa)	308
Longitudinal Tensile Modulus (GPa)	16.6
Transverse Tensile Strength (MPa)	345
Transverse Tensile Modulus (GPa)	17.8
Transverse Adhesion Strength (MPa)	11.4
Lap Shear Adhesion Strength (MPa)	15.3
Maximum Service Temperature (°C)	226
Pot Life at 30 °C (mins)	30
90% Full Strength Cure Time at 30 °C (hours)	6
Hardness (Shore D)	80

Product Benefits

- Extends pipeline/equipment service life
- Reduce maintenance cost
- Light weight and cost effective repair solution
- Live repair with no shutdown required
- Performs in accordance to ISO 24817 and ASME PCC-2

IOSV

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iowrap™

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