

Revowrap 110

PRODUCT SHEET



PRODUCT OVERVIEW

REVOWRAP 110

-50°C to 109°C with no pressure limitations!

Revowrap is an engineered composite solution used to restore damaged critical assets back to the original design specification of the equipment. Each repair is engineered using ASME PCC2 or ISO TS 24817 engineering codes for High risk non-metallic repairs. Carbontech engineers have the technology to perform FEA (Finite element analysis) on both the damaged piping systems and the Revowrap composite repair system. Revowrap provides re-enforcement of the piping in both the axial and hoop directions, and delivers uniform loading throughout the repair. The “Revowrap110 ®” composite systems are engineered to operate in working temperatures from -50°C to 109°C and bares no pressure limitations. Our composite systems can be applied by hand lamination or by infusion methods and may be applied to live piping systems without shutting down for the repair. Revowrap may be applied to any pipe size, most substrates and almost any piping configuration including tanks, vessels, flanges, and other compromised structural assets.



PRODUCT PERFORMANCE INDICATORS	
ASME PCC2 Compliant	Fully Compliant
ISO T- 24817 Compliant	Fully Compliant
Minimum Application Temperature	8°C
Maximum Application Temperature	100°C
Minimum Allowable Operating Temperature	-50°C
Maximum Allowable Operating Temperature	109°C for non Leaking Defects
Maximum Allowable Operating Pressure	No Limitations
Shelf Life	2 Years – Extendable
Set Time @29°C	4 Hours
Minimum Pipe Diameter	No Limitations
Maximum Pipe Diameter	No Limitations
Repair Lifespan	Up to 20 Years
Through Wall Defects	Permissible

REVOWRAP 110



PRODUCT ISO TS-24817 & ASME PCC2 QUALIFICATION DATA

REVOWRAP 110	TEST	Test Code	Metric	Imperial
	Ply Thickness	N/A	.45mm	0,02inch
	Tensile Modulus Hoop	ASTM D3039	48,8GPa	7077,8ksi
	Tensile Modulus Axial	ASTM D3039	20,5GPa	2973,3ksi
	Tensile Strength	ASTM D3039	568,2GPa	82410,4psi
	Tensile Strain to Failure	ASTM D3039/D638	1.1%	1.1%
	Shear Strength	ASTM D5379	73,6MPa	10674,8psi
	Poisson's Ratio	ASTM D3039	0,33	0,33
	Lap Shear Strength To Steel (SA2.5)	ASTM D3165	10,04MPa	1456,18psi
	Lap Shear Strength To Steel (ST2)	ASTM D3165	7,35MPa	1066,03psi
	Lap Shear Strength To Steel (ST3)	ASTM D3165/D1002	5,86MPa	849,92psi
	Barcol/Shore D Hardness	ISO 868	75 Minimum	75 Minimum
	Thermal Expansion Coefficient	ISO 11369-2	1,45E-6°C ⁻¹	8.06E-7°F ⁻¹
HDT (Heat Distortion Temperature)	ASTM D648	124,08°C	255,34°F	



PACKAGING INFORMATION

CARBON FIBER FABRIC

Product Code	Description
RCT-50-10	Carbon Cloth: T- 0.44mm-W-50mm x L-100 Meter
RCT-80-10	Carbon Cloth: T- 0.44mm-W-80mm x L-100 Meter
RCT-100-10	Carbon Cloth: T- 0.44mm-W-100mm x L-100 Meter
RCT-150-10	Carbon Cloth: T- 0.44mm-W-150mm x L-100 Meter
RCT-250-10	Carbon Cloth: T- 0.44mm-W-250mm x L-50 Meter
RCT-330-10	Carbon Cloth: T- 0.44mm-W-330mm x L-50 Meter

PRIMER

Product Code	Description
R110-P-A-1	Revowrap110 Primer, Part A, 250g
R110-P-B-1	Revowrap110 Primer, Part B, 68g
R110-P-A-2	Revowrap110 Primer, Part A, 500g
R110-P-B-2	Revowrap110 Primer, Part B, 131g
R110-P-A-3	Revowrap110 Primer, Part A, 1000g
R110-P-B-3	Revowrap110 Primer, Part B, 256g
R110-P-A-4	Revowrap110 Primer, Part A, 10000g
R110-P-B-4	Revowrap110 Primer, Part B, 10000g

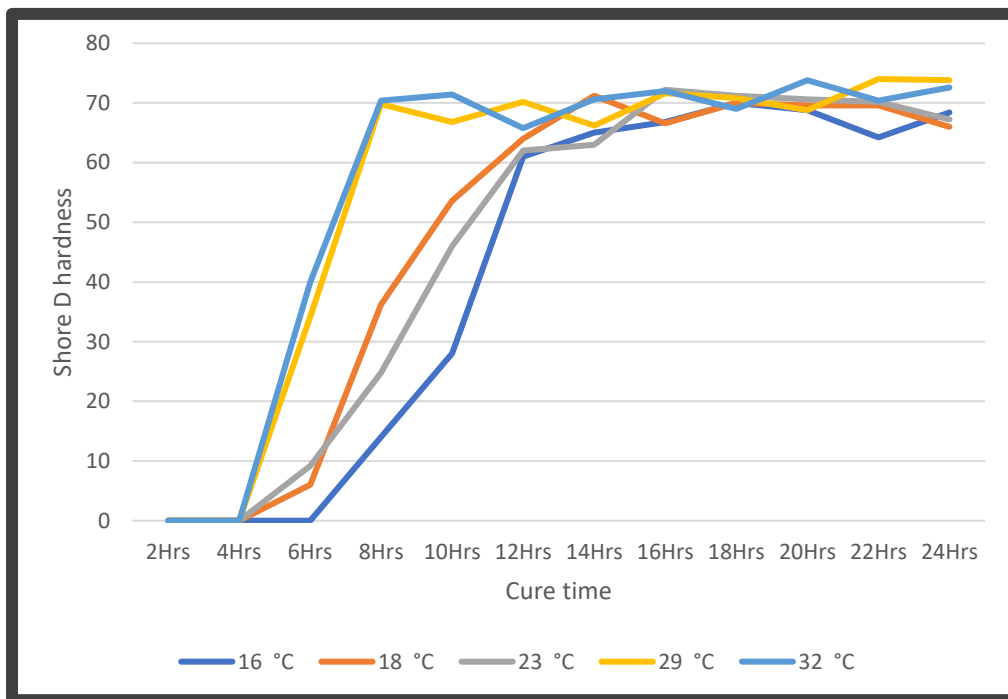
SATURATOR

Product Code	Description
R110-S-A-1	Revowrap110 Saturator, Part A, 260g
R110-S-B-1	Revowrap110 Saturator, Part B, 68g
R110-S-A-2	Revowrap110 Saturator, Part A, 510g
R110-S-B-2	Revowrap110 Saturator, Part B, 131g
R110-S-A-3	Revowrap110 Saturator, Part A, 1010g
R110-S-B-3	Revowrap110 Saturator, Part B, 256g
R110-S-A-4	Revowrap110 Saturator, Part A, 25000g
R110-S-B-4	Revowrap110 Saturator, Part B, 25000g

REVOWRAP 110



Revowrap 110 cure time VS Shore D Hardness

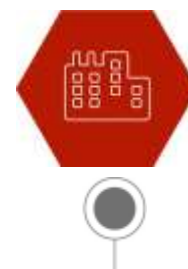


ADVANTAGES

- Fast, Non-invasive repair - does not require hot work
- Repairs done live – no unplanned downtime
- Can Handle complex geometries
- Resistant to Harsh chemicals

INDUSTRIES

- Oil and Gas facilities
- Petrochemical plants
- Chemical plants
- Transmission Pipelines
- Potable water



USES

- Internal Corrosion
- External corrosion
- Mechanical damages
- Weld Anomalies



CARBONTECH

The place chemistry, engineering and global expertise are brought together to drive progressive innovation in advanced composite technologies for the emergency repair of critical assets "There is nothing generic about us" we don't just sell pipe wraps; we provide accurate engineering backing to deliver tailored solutions

Sound and responsible engineering is the basis on which we build our company, products and services. It is the core to our success and it is the foundation on which we have engineered and manufactured our innovative and bespoke products

We strive by a zero-failure philosophy and warrant our engineered composite solutions are tested, proven and validated. We vow to provide dependable, responsible and accurate information regarding the capabilities of our systems

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PROGRESSIVE COMPOSITE ENGINEERING

