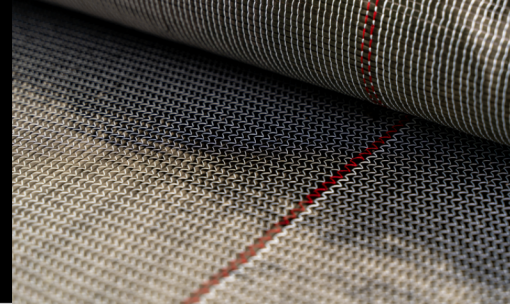


CarbonStrong

850 - THE SYSTEM



The TCI Carbon Fibre 850 System, also known as CarbonStrong CS-850 Composite, is a composite system composed of thermoset Saturating Epoxy (TCI 300-S) and Carbon Fiber Fabric (TCI-CS-850) with a combination of any or all of our other products. This combination forms a Carbon Fiber Reinforced Polymer (CFRP) laminate that is used to reinforce and upgrade various structural elements. It finds applications in enhancing structural capacity, accommodating increased loads, seismic retrofitting, blast resistance upgrades, structural damage repair, and more. This system offers several advantages, including compliance with NSF/ANSI Standard 61 & NSF 372, adherence to design criteria of AWWA C305, ACI 440, CSA S806, and CSA S16, high strength-to-weight ratio, and resistance to corrosion, making it a versatile solution for strengthening and upgrading structures.

The 850 System Includes any or all of the following products (depending on the project)



TCI CarbonStrong
800-D (Dry Primer)



TCI CarbonStrong
800-W (Wet Primer)



TCI CarbonStrong
300-S (Saturant)



TCI CarbonStrong
200-B (Butter)



TCI CarbonStrong
955-PL

REASONS FOR REPAIR OR STRENGTHENING:

- Structural overstress due to design and/or construction errors
- Change of occupancy and overloading demands
- Deterioration of structural elements due to corrosion and aggressive solutions
- Seismic retrofitting to comply with design code provisions
- Blast mitigation
- Environmental protection and coating

APPLICATIONS:

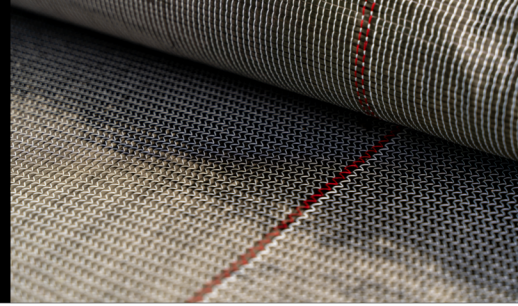
The TCI CarbonStrong 850 System can be used to repair or strengthen many structures, including:

- Infrastructure
- Water and Wastewater
- Manholes and Chambers
- Reservoirs and Wet Wells
- Settling Tanks
- Aeration tanks



CarbonStrong

850 - THE SYSTEM



WHY USE TCI CARBONSTRONG SYSTEM?

- High tensile and flexural strength compared to other construction materials
- 100% solid and 100% solvent-free
- Can be used for repair, rehabilitation and infrastructures
- Excellent for buckling design of CFRP Liner
- Passed long-wear water tightness testing of 500 psi
- Helped increase the working pressure of existing pipes
- Easy to install in a wet lay-up process and forming irregular surfaces
- NSF 61 and NSF 372 approved for Potable water applications
- Proved long-term durability testing
- Can be used to renew existing pipes of different materials
- Cost saving due to lower number of plies required to restore the strength capacity of structural members
- Provide excellent protection against aggressive environmental exposures
- Can be designed as stand-alone pipe, composite system with existing pipe and as a protective coating
- Enhance the water flow conditions in the repaired pipe
- Seismic retrofitting of existing structures
- Protect concrete from further deterioration when applied as protective or structural coating

TCI Carbon Fibre Technologies Inc. is a leader in infrastructure support solutions for Canadian communities. We offer a range of cutting-edge products, including Carbon Fibre Reinforced Polymer and specialized Thermoset Epoxy options, all designed to meet or exceed industry standards. With our extensive expertise, we've established rigorous product standards, validated through comprehensive testing conducted by certified third-party labs, and proven through challenging on-site trials. TCI also provides tailored structural designs for diverse projects, leveraging our in-house software to strengthen and repair columns, beams, slabs, and pipes. Our designs are meticulously crafted and reviewed by seasoned professional engineers well-versed in TCI's product application.



www.tccarbonfibre.com

