



Water Seal



STRUCTURAL STRENGTHENING & CONCRETE REPAIR



WATER SEAL



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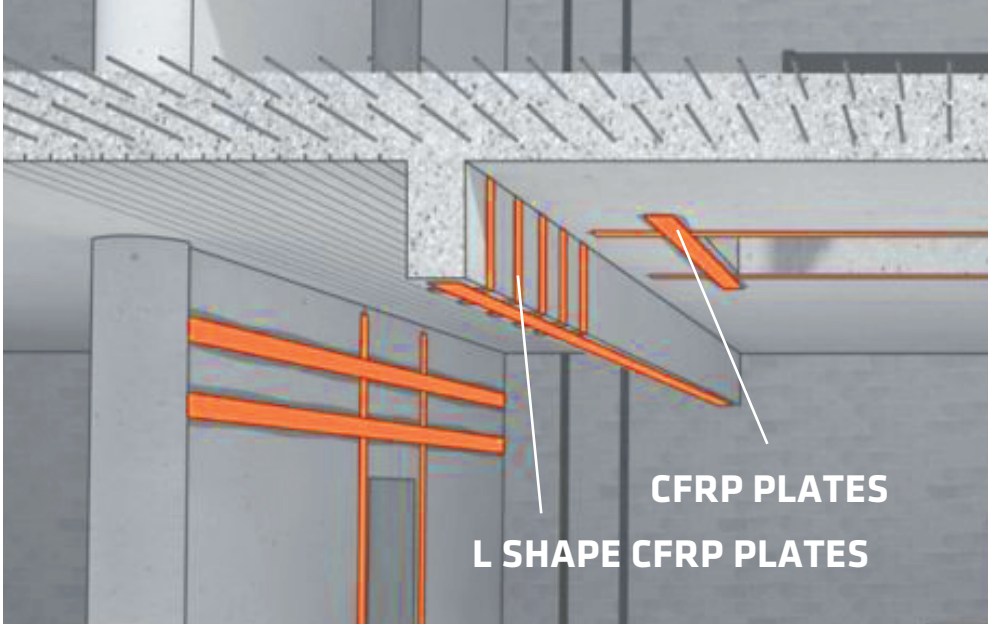
Water Seal provides fully comprehensive solutions with complete systems for all kinds of structural strengthening and improvement, whether it involves increasing bending, shear, or impact resistance. These solutions have been tested and proven through numerous projects in the UAE.

Structural Strengthening systems are available for use on reinforced concrete, steel, wood and masonry load-bearing structures.

We have skilled team & qualified engineers in our division of Structural Strengthening & Concrete Repair. We undertake jobs for rehabilitation and restoration using convenient and economic method of improving structural performance. Water Seal uses the latest technologies to develop innovative strategies to restore or add load-carrying capacity to bridges, buildings, parking facilities, silos and other structures.

OUR SERVICES

CARBON FIBER REINFORCED POLYMER (CFRP) PLATES



Prefabricated Carbon Fiber Reinforced Polymer (CFRP) Plates

For strengthening of concrete substrates, prefabricated CFRP plates can be externally bonded or near surface-mounted. Water Seal offers a wide range of carbon FRP plates in different dimensions and varying E-moduli.

L-shape Carbon Fiber Reinforced Polymer (CFRP) Plates

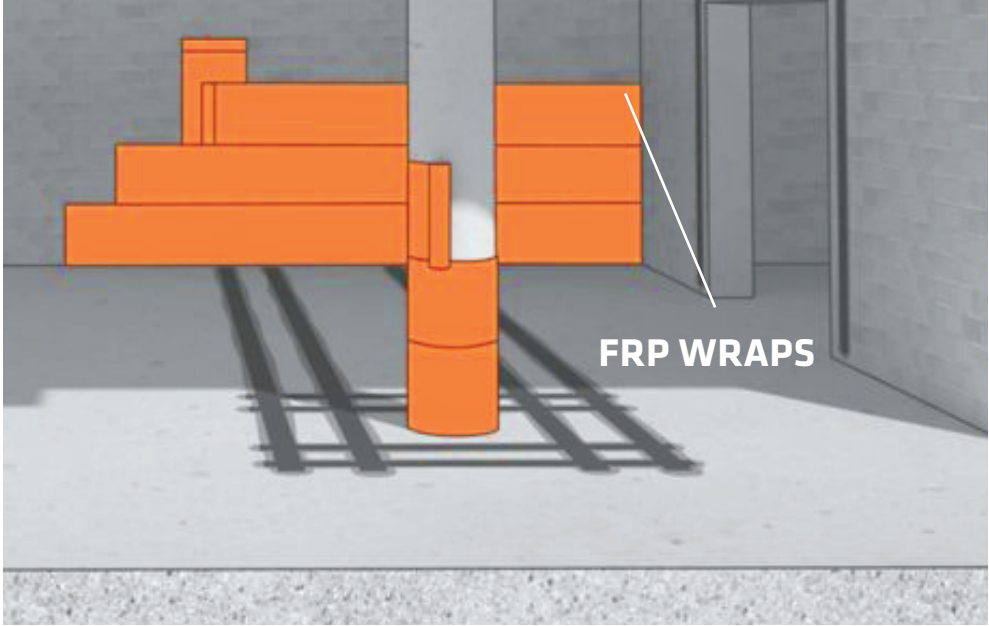
Shear capacity of concrete beams can be increased by externally applying CFRP strengthening systems. Water Seal provides unique L-shape CFRP plates for effective anchorage of stirrup forces in concrete compressive zones.

Carbon Fiber Reinforced Polymer (CFRP) Post-tensioning Systems

Post-tensioned systems are effective for control of structural cracks and deflections and to increase fatigue resistance and seismic resistance. Water Seal provides a unique system based on post-tensioned CFRP plates.

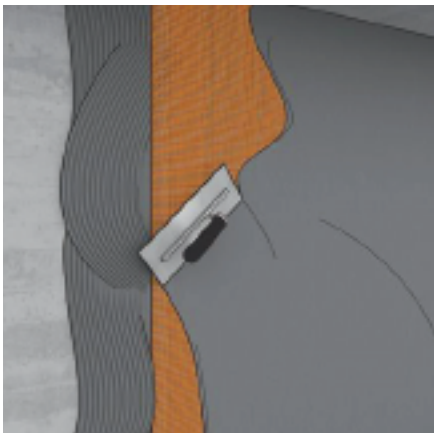
OUR SERVICES

FIBER REINFORCED POLYMER (FRP) FABRICS



Fiber Reinforced Polymer (FRP) Fabrics

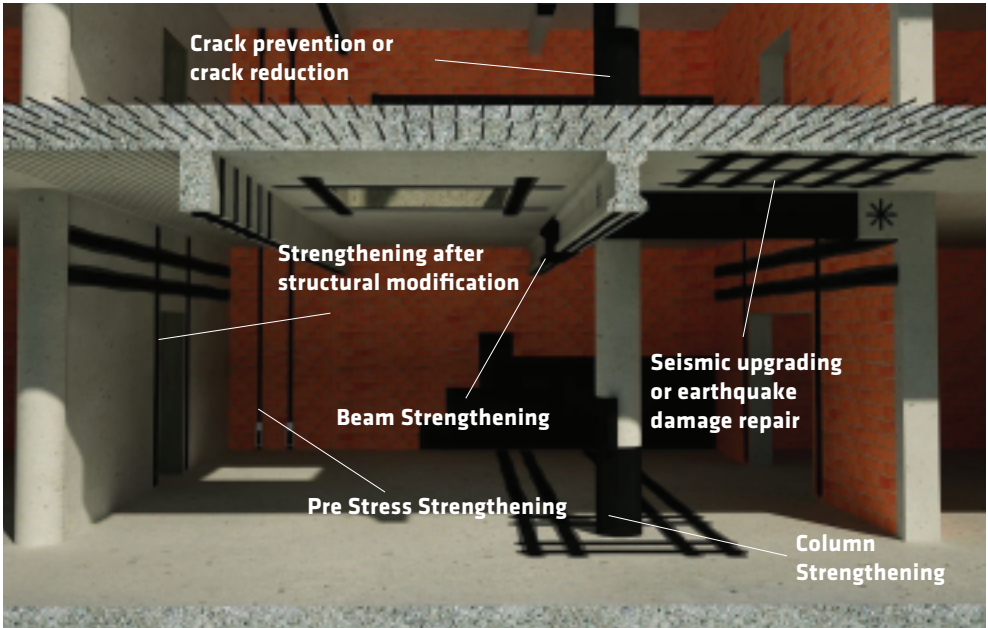
Externally applied fabrics can be used to increase flexural, shear, axial or seismic resistance of structures. Water Seal offers various fabric systems, based on different types of materials for specific needs and cost-optimized strengthening



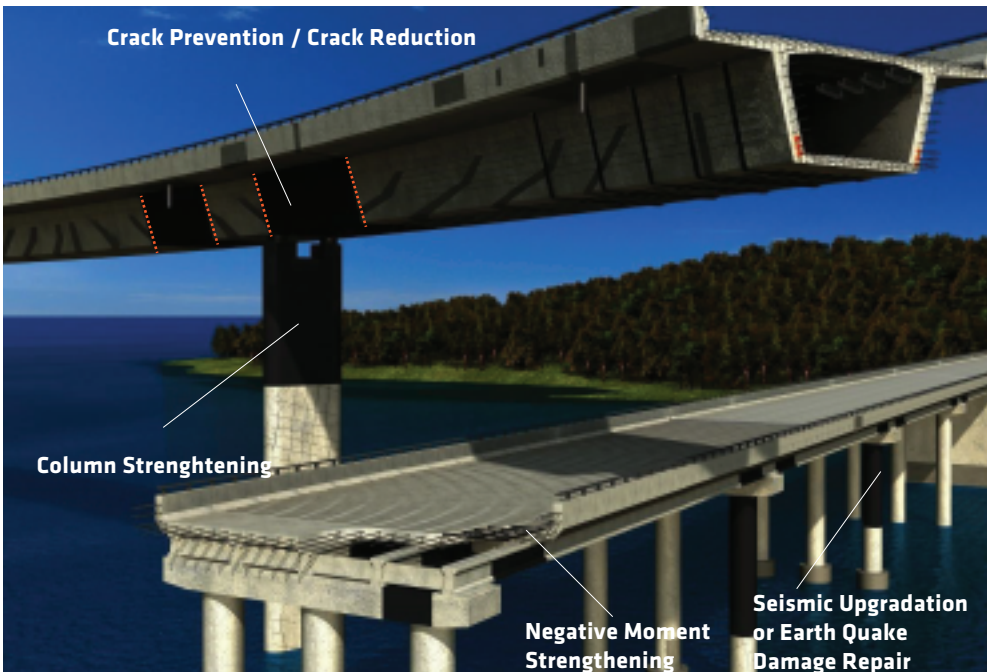
Fiber-Reinforced Cementitious Matrix (FRCM)

A carbon fiber grid embedded in a specially designed repair mortar for reinforcement of concrete or masonry structures.

STRENGTHENING OF BUILDINGS USING CARBON FIBER



STRENGTHENING IN BRIDGES



STRENGTH YOU CAN TRUST

With a depth of knowledge from our 'state-of-the art' technical expertise and global practical experience to produce virtually tailor-made solutions for the repair, refurbishment and improvement by strengthening of your existing buildings and civil engineering structures. This includes fully compatible products and integrated systems to suit almost every project and site requirement.



Structural Strengthening Systems have been tested extensively internally and externally, under many different conditions to ensure their long-term performance in different environments.



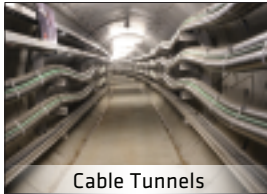
TYPICAL AREAS OF STRUCTURAL STRENGTHENING & CONCRETE REPAIR

Projects undertaken range from controlling major incursions to weeping cracks. Sites from the largest civil engineering projects to small individual lift pits.

Solutions for:



Transport Tunnels



Cable Tunnels



Car Parks



Swimming Pools



Docks & Harbours



Diaphragm Walls & Piles



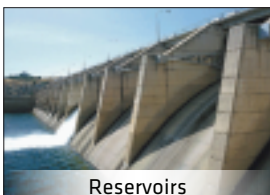
Water Treatment Plants



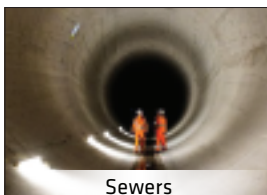
Water Tanks



Bridges



Reservoirs



Sewers



Liftpits

STRUCTURAL STRENGTHENING & CONCRETE REPAIR - KEY PROJECTS



Project: Burj Al Arab 24th floor Structural Strengthening by I BEAM
Year: 2021
Location: Dubai
Our Client: Alec Engineering & Contracting
Scope of Work: Strengthening by I beam



Project: Sharjah International Airport ATC Tower Structural Rectification
Year : 2021
Location : Sharjah
Our Client : Sharjah Airport Authority
Scope of Work : Demolison Works, Concrete Repair, Casting, Cathodic Protection, Strengthening by CFRP system



Project: Gardens 3 District Cooling Plant Structural Strengthening & Modification Works
Year: 2020
Value: AED 1.2 Million
Location: Dubai
Our Client: Empower (Emirates Central Cooling System Corporation)
Scope of Work: Structural Strengthening & Soil Stabilization

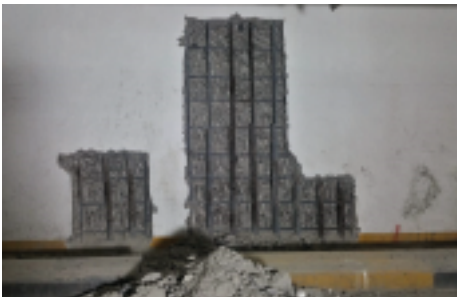
STRUCTURAL STRENGTHENING & CONCRETE REPAIR - KEY PROJECTS



Project: Dubai Airport Priority 2A Project Related Civil & MEP Works - Dubai
Year: 2019
Value: AED 332,940
Location: Dubai
Our Client: Alec Engineering & Contracting
Scope of Work: Structural Strengthening by CFRP



Project : Mai Dubai Factory - Stabilization Works and Rectification works
Year : 2020
Location : Dubai
Our Client : Mai Dubai
Scope of Work : Soil stabilization, Slab Lifting, Concrete Repair



Project: Refurbishment of Hala Building (B+G+Roof) Al Muaileh - Sharjah
Year: 2019
Value: AED 218,000
Location: Sharjah
Our Client: East Coast Contracting
Scope of Work: Structural Strengthening

STRUCTURAL STRENGTHENING & CONCRETE REPAIR - KEY PROJECTS



Project: Dubai Hospital - Complete Structural Repair of Old Cooling Towers
Year: 2019
Value: AED 658,000
Location: Dubai
Our Client: Dubai Health Authority
Scope of Work: Structural Strengthening



Project: Dubai Airport Al Majlis Facility Strengthening
Year: 2020
Value: AED 46,000
Location: Dubai
Our Client: Alec Engineering & Contracting
Scope of Work: Structural Strengthening by CFRP



Project: Construction of 500 Villas in Oud Muteena Dubai
Year: 2016
Value: AED 11.2 Million
Location: Dubai
Our Client: Arabtec Construction LLC
Scope of Work: Slab Lifting

STRUCTURAL STRENGTHENING & CONCRETE REPAIR - KEY PROJECTS



Projects: Reef Mall Proposed Repair & Rectification Works to External Façade - Dubai
Year: 2019
Value: AED 538,000
Location: Dubai
Our Client: Reef Mall - Al Ghurair Real Estate Group
Consultant: Bureau of Engineering Studies Consulting Engineers



BEFORE



IN PROCESS



AFTER

Projects: Sharjah Safari Park - Al Dhaid Sharjah, UAE - Suspension Bridge, Pool & Reed Bed
Year: 2019
Value: AED 280,000
Our Client: Hardco Building Contracting
Consultant: Jacob Consultant
Project Client: Sharjah Investment & Development Authority (Shurooq)
Scope of Work: Structural Strengthening



Projects: Proposed G+2 Building on Plot # 112-458 Renovation Works Deira Dubai
Year: 2011
Value: AED 635,000
Location: Dubai
Our Client: Asia Prime Contracting
Scope of Work: Structural Strengthening & EIFS

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