

TEAMPRO

ADVANCED STRUCTURAL SOLUTIONS

Bringing Structure to Life

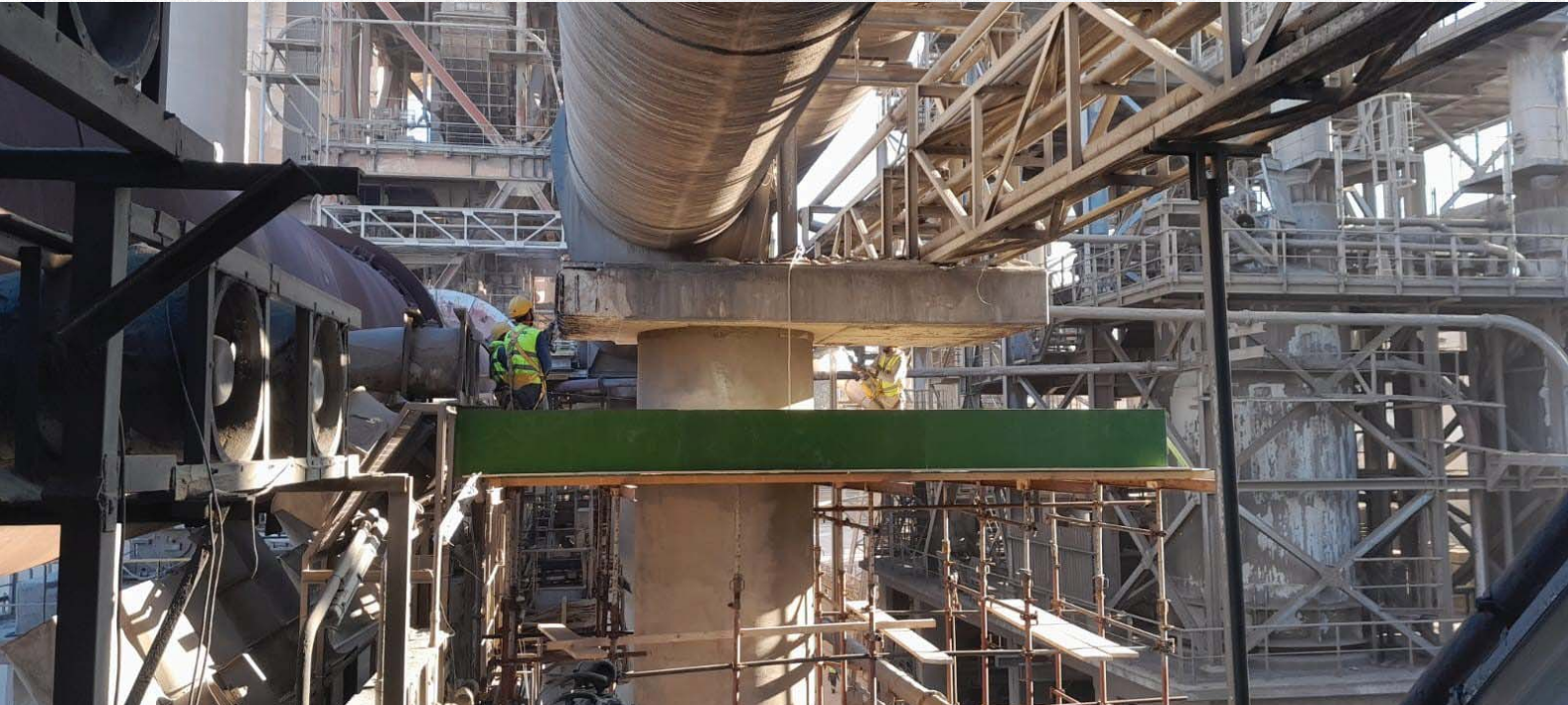


- Concrete Repair & Strengthening
- Waterproofing
- Trading Concrete repair & Waterproofing Material

TEAMPRO

ADVANCED STRUCTURAL SOLUTIONS

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ABOUT US

TEAMPRO

ADVANCED STRUCTURAL SOLUTIONS

TEAMPRO Ltd is a specialized engineering company delivering advanced solutions in structural rehabilitation, concrete repair, and infrastructure strengthening for industrial, commercial, and infrastructure assets.

As part of the ARKON Engineering Network, TEAMPRO operates within an international platform that integrates engineering expertise, advanced materials, and execution capabilities across the Middle East, Europe, and Africa. This structure enables the delivery of complex projects combining design, technical support, and on-site implementation.



The company focuses on extending the service life of existing structures through high-performance repair systems, FRP strengthening technologies, corrosion protection, and targeted rehabilitation strategies. With a strong engineering-driven approach, TEAMPRO ensures durability, safety, and cost efficiency in challenging environments.

With growing operations in Africa and emerging markets, TEAMPRO positions itself as a reliable partner for infrastructure rehabilitation, supporting contractors, developers, and institutional clients with technically sound and execution-oriented solutions.

Concrete Repair

FRP Strengthening

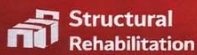
Waterproofing

Facades Renovation

ARKON Engineering Network



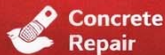
Global Expertise, Local Solutions



Structural Rehabilitation



FRP Strengthening



Concrete Repair



Trading Construction Material



Engineering Management

ARKON Engineering Network is an international platform connecting specialized engineering and construction companies to deliver advanced structural solutions, infrastructure rehabilitation, and technical expertise across emerging and established markets

The network brings together companies with complementary capabilities in structural engineering, concrete repair, infrastructure rehabilitation, and construction materials trading, enabling the group to execute complex engineering projects and provide high-level technical support to contractors, developers, and international organizations

Through a collaborative structure, ARKON integrates the operational expertise of engineering firms operating in the Middle East, Europe, and Africa, forming a coordinated system capable of delivering both engineering design and on-site execution.

ARKON ENGINEERING NETWORK

Global Coordination Office
Beirut, Lebanon

CLIENTS & SERVED SECTORS

TEAMPRO

ADVANCED STRUCTURAL SOLUTIONS



Industrial Sector

- Cement Plants & Industrial Facilities



Telecommunications Infrastructure

- Telecom Towers & Data Centers



Commercial & Institutional Buildings

- Office & Commercial Developments



Infrastructure & Utilities

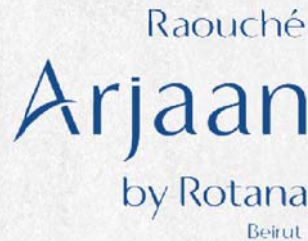
- Infrastructure Rehabilitation Projects

Selected Clients

Projects Completed by the ARKON Engineering network



OUR LADY OF LEBANON

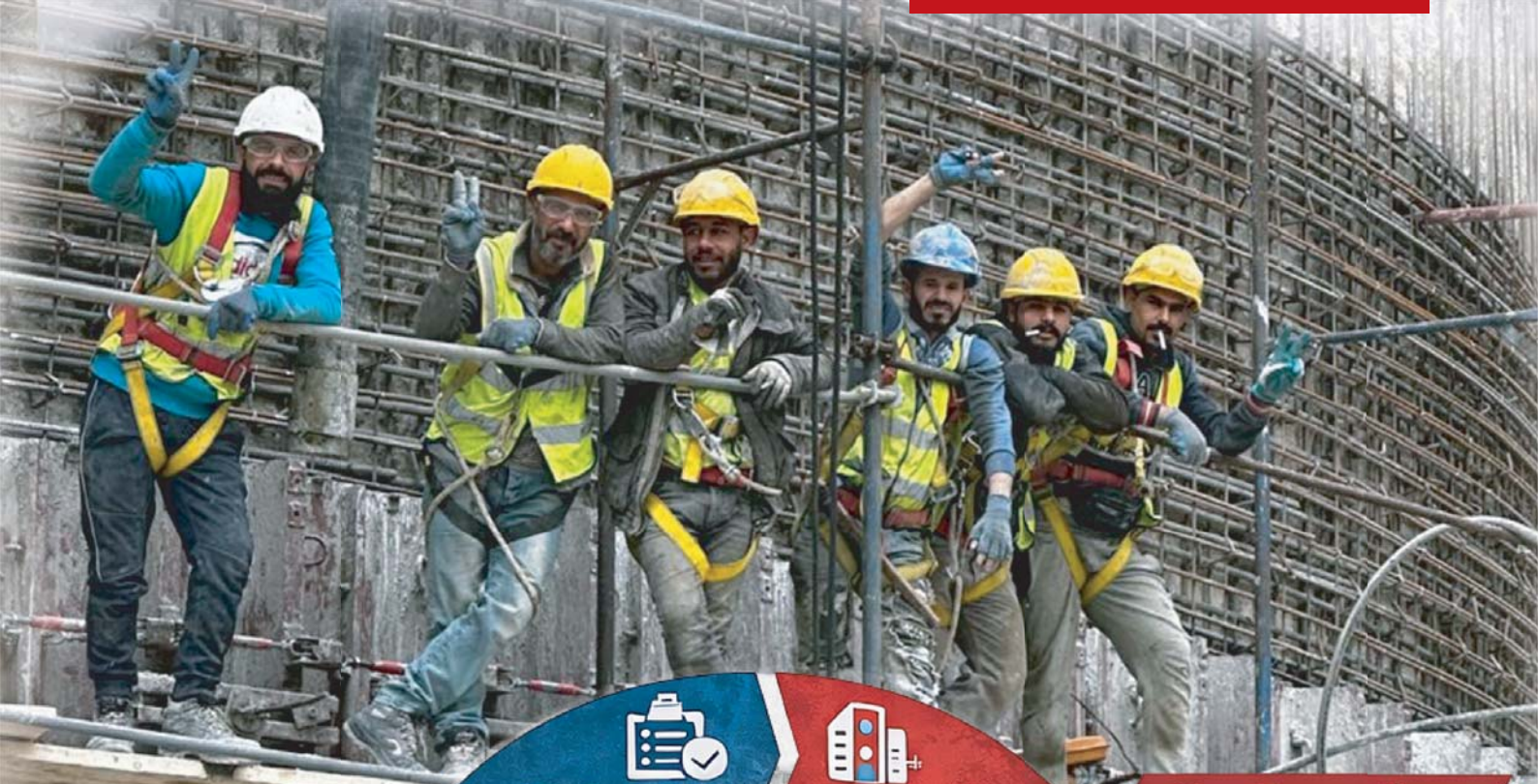


Selected experience delivered through companies of the ARKON Engineering network including:



BAU-FIX





Our Expertise

- ✓ FRP & Steel Retrofit Systems
- ✓ Concrete Repair & Strengthening system
- ✓ Technical Solutions
- ✓ Construction Services & Projects management
- ✓ Waterproofing application
- ✓ Material trading & training
- ✓ Material trading & training



Member of the **ARKON** Engineering Network

- ✓ Engineering Excellence
- 📍 Regional Presence
- 🌐 Global Standards
- 📄 Project Delivery

AFRICELL DATA CENTER REHABILITATION - Freetown SL

⚠ THE CHALLENGE

The existing slab will remain floating and supported on a very heavy propps to load bearing the complete loads making structural rehabilitation highly sensitive, critical and technically demanding

- ⚠ **Limited Resources** – Remote location with constrained manpower, equipment, and logistics
- ⚠ **Short Time Frame** – Fast-track execution to meet operational deadlines
- ⚠ **Floating Slab on Propps** – Zero tolerance for overloading or vibrations
- ⚠ **No On-Site Power Tool Support** – No maintenance from suppliers or major

TEAMPRO delivered a fast-track, engineer-driven solution tailored to extreme constraints:

- **Rapid Mobilization** with a compact, skilled team
- **Low-Vibration Techniques** to protect the propped floating slab
- **Manual & Corded Tools Strategy** with in-house maintenance to ensure uninterrupted works
- **Systematic Rehabilitation including:**
 - ✓ Concrete removal & surface preparation
 - ✓ Rebar treatment & corrosion protection
 - ✓ High-strength repair mortars

SCOPE OF WORK

- | | |
|----------------------|------------------------------|
| ✂ Concrete Repair | ≡ Slab & Beam Rehabilitation |
| ⌘ Rebar Treatment | 🛡 Corrosion Protection |
| 📄 CFRP Strengthening | 🔒 Load-Sensitive Execution |



RECAP sarl, member of ARKON Network, is executing and in progress of this project and it is scheduled to be delivered by end of June 2026

SILO 7 CLINKER RETROFITTING

Cement of Sibline

PROJECT INFORMATION

Client: Cement of Sibline s.a.l

Consultant: Nabil Hannawi

Contract: 500K

The existing silo exhibited advanced reinforcement corrosion, significant concrete degradation, and reduced load-bearing capacity due to prolonged exposure to aggressive environmental conditions. A two-phase rehabilitation strategy was implemented to address these deficiencies while ensuring structural continuity and long-term performance.



THE CHALLENGE

A two-phase structural rehabilitation project aimed at halting active corrosion and restoring structural load-bearing capacity. The intervention ensures long-term durability and prevents critical structural failure through a full concrete jacketing system.

- Hidden Structural Deficiencies** - Previously undetected reinforcement deterioration revealed during demolition, resulting in significant increase in repair scope
- Inadequate Reinforcement** - Anchorage Existing steel exhibited insufficient bond and anchorage capacity, requiring redesign of load transfer mechanism
- Complex Vertical Execution** - Constraints Work executed on a 27 m high cylindrical structure requiring controlled sequencing, access management, and safety compliance



SCOPE OF WORK



REMOVAL OF DETERIORATED CONCRETE
Stripping to sound structural substrate.



CIRCULAR FORMWORK INSTALLATION
One-sided flexible shuttering system.



REINFORCEMENT TREATMENT & PROTECTION
Cleaning and anti-corrosion coating.



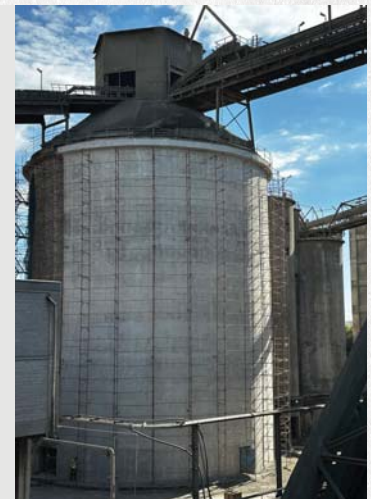
CONCRETE JACKETING
Structural concrete for load restoration.



ANCHORING OF NEW REINFORCEMENT
Fixing ties to integrate new steel layer.



PROTECTION & WATERPROOF COATING
Durability and environmental resistance.



WORLD BANK - BEIRUT

Seismic Retrofitting

PROJECT INFORMATION

Client: WORLD BANK - BEIRUT




Consultant: BERM- Bureau d'Études Rodolphe Mattar

Contract: 500K

As part of the Renovation Works for the World Bank Group Office in Beirut, Lebanon we have been sub-contracted by Hourie Enterprise the strengthening of vertical elements by FRP system.

The calculation of loads were submitted by the consultant and accordingly we have submitted our our retrofitting plan using Sikawrap CFRP Wet and dry application depending on type sheets used.

THE CHALLENGE

-  **Surface Preparations Constraints** - Achieving required substrate quality (clean, roughened, dry surface) under site limitations to ensure proper CFRP bonding.
-  **Sequence Coordination with Other Trades** - Works integrated within ongoing site activities, requiring careful planning and phased execution.
-  **CFRP Design Limitations** - Constraints
The existing column dimensions and geometric constraints limited the efficiency of standard CFRP confinement, requiring advanced design adaptation.



TECHNICAL PROCESS

- **CFRP System Design**
Engineering analysis and design of CFRP confinement system for seismic strengthening
- **Concrete Surface Preparation**
Grinding, cleaning, and substrate preparation to ensure optimal bonding
- **Controlled CFRP Installation**
Application of carbon fiber sheets saturated with epoxy resin to achieve uniform confinement
- **Quality Control & Inspection**
Monitoring of application parameters and compliance with specifications

BEIHOUSE HOTEL RETROFITTING Gemayze

PROJECT OVERVIEW

Client: SCMC Gemayzeh S.A.L.

Consultant: PARALAX




Main Contractor: Entreprise Hourie

Scope Contractor: RECAP sarl

The project involves the rehabilitation of a boutique hotel located in Gemmayzeh, Beirut, consisting of 8 floors with a total built-up area of approximately 1,450 m². RECAP was responsible for executing post-installed anchoring systems and concrete repair works to restore the structural integrity of the existing structure and ensure long-term durability.



THE CHALLENGE

-  The project presented multiple technical and operational challenges due to the nature of rehabilitation works within an existing structure.
-  The primary challenge was synchronizing execution activities with the main contractor while maintaining high productivity within limited working spaces.
-  Additionally, existing structural constraints and deteriorated concrete conditions required precise installation of post-installed anchors, ensuring full compliance with manufacturer guidelines and performance requirements.



TECHNICAL PROCESS

Execution was carried out following a systematic and controlled methodology:

- Detailed marking and layout of anchor locations
- Drilling operations with strict alignment control
- Thorough hole cleaning (air & brush method)
- Injection of **CHEMOFAST EP1000** anchoring system
- Surface preparation of damaged concrete areas
- Application of high-performance repair mortars
- Continuous supervision and quality control



Concrete repair & Strengthening System

TEAMPRO utilizes a complete range of S&P advanced material systems for structural rehabilitation, repair, and strengthening, ensuring durability, performance, and long-term protection in demanding environments.

✓ Exclusive Distribution

TEAMPRO is the exclusive distributor of S&P and Chemofast systems in Sierra Leone, providing full technical support, supply, and application expertise



Concrete repair & Grouting System



TechnogROUT-FIB

(Thixotropic repair mortar)

- ✓ Applied by hand or wet spraying also with overhead application
- ✓ Shrinkage compensated
- ✓ Mechanically highly resilient
- ✓ Resistant to freeze-thaw



S&P TechnogROUT-N

(Flowable non-shrink grout)

- ✓ Non-shrinking
- ✓ Water-resistant
- ✓ Various application thicknesses
- ✓ Sulphate resistant



	TechnogROUT-N/PR	TechnogROUT-N	TechnogROUT-N/GR
Aggregate Size	1mm	3mm	5mm
F'c (28 days)	> 65 MPa	>70MPa	>70Mpa
Application thick.	5-30mm per layer	30-80mm per layer	80-120mm per layer

Corrosion protection & Bonding



S&P Tecnoprot-CEM

(Cementitious corrosion inhibitor)

- ✓ Excellent workability
- ✓ Can be brush or spray applied
- ✓ Excellent compressive strength & adhesion properties



S&P Resicem HP

(3K Epoxy laminating resin & bonding agent)

- ✓ Good wettability
- ✓ Good stability
- ✓ High performance
- ✓ Can be applied by machine



MCI- 2021

(Migratory corrosion inhibitor)

- ✓ Protection against corrosion of rebars
- ✓ Easy to apply via spraying
- ✓ Allows vapour transmission
- ✓ Can be brush or spray applied

FRP Strengthening System

S&P C-Laminate

High strength carbon fiber laminate



- ✓ Very high tensile strength
- ✓ Corrosion resistance
- ✓ Low deadweight
- ✓ Easy application (also overhead)

* SM = Standard E-Modulus / HM = High E-Modulus

S&P C-Sheet 240

(High strength carbon fibre fabric)



- ✓ Flexible application
- ✓ Available in a variety of widths and thick
- ✓ No corrosion
- ✓ Very short interruption of normal use of the relevant building or infrastructure
- ✓ No noise and no vibration during installation

Roll length: 50 m or 100 m
Roll width: 300 mm

CHEMOFAST CHEMICAL ANCHORING SYSTEMS

TEAMPRO delivers high-performance **Chemofast anchoring systems**, providing reliable structural connections, post-installed reinforcement, and heavy-duty fixings, supported by full technical expertise and controlled supply chain management.



CHEMOFAST



HIGH-PERFORMANCE ANCHORING SYSTEMS



EP1000 Epoxy System

- Suitable for cracked & non-cracked concrete
- Approved for seismic applications
- Long-term durability (up to 100 years)
- Applicable in wet and flooded holes



V-ECO Vinylester System

- Fast curing for rapid installation
- High chemical resistance
- Suitable for high-temperature environments



VK / EA Injection Systems

- Versatile anchoring solutions
- Suitable for concrete & masonry
- Efficient for general applications

APPLICATIONS

- ✓ Post-installed rebar connections
- ✓ Structural anchoring in concrete
- ✓ Fixation in masonry & hollow blocks
- ✓ Heavy-duty equipment anchoring



TECHNICAL SUPPORT

- ✓ On-site technical assistance
- ✓ Anchor design support & calculation
- ✓ Pull-out testing & validation
- ✓ Installation training & supervision
- ✓ Method statement & system selection



INTEGRATED ENGINEERING & SUPPLY PLATFORM



DISTRIBUTION

- Exclusive distributor at S&P & Chemotex systems



ENGINEERING NETWORK

- Part of ARKOM



TRADING SUPPORT

- Backed by BAUFIX international trading experts

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