



WATER IS A RESOURCE
THAT WE CONTROL

- PROJECT, IMPLEMENTATION AND MAINTENANCE OF WATER SUPPLY SYSTEMS AND TREATMENT
- WTP, WWTP, POOLS AND COOLING SYSTEMS
- STRUCTURAL REINFORCEMENTS/ REHABILITATIONS AND CORING
- REPAIR AND SEALING SYSTEMS IN CONCRETE BY INJECTION

Ecofirma

For Ecofirma there is only one future: The global. Countries in Europe, Africa and America are already on our map. We bring the most advanced products, techniques and equipment that guarantee optimum water efficiency in all the retaining structures.



Objectives

We want to ensure credibility, competence and reputation in all the markets where we are present.

We want to be leaders in maintenance of water supply systems and rehabilitation of concrete structures.

We want to be leaders in the projects and implementation of efficient and optimized water systems using cutting-edge techniques and products.



Qualified team

We have 20 years of accumulated experience in this sector.

The knowledge and experience of a highly qualified team will be important factors of differentiation in these market, placed at the service of our customers.

We have a multifaceted technical team. We are able to respond to all challenges in a timely manner, guaranteeing a specialized professional service. Our team is composed not only by experienced managers with knowledge of the current and future needs of the market but also by engineers with a background in special waterproofing, rehabilitation of reinforced concrete structures, water supply systems and industrial and domestic wastewater treatment, disinfection, among others.

All works are coordinated by a technician with a background in engineering and carried out by teams composed of supervisors and specialized technical training and operating with proven experience in different areas.

We have an active network of partners and customers.

For an experience of success is crucial to the ecosystem of partnerships that we have created with other companies, manufacturers, suppliers and designers. To our customers, we assure total quality control in the execution of our work. We are focused on ensuring the confidence and satisfaction of all of them. Our most important asset is people. So, we invest on the permanent value of our employees and the quality of the work environment. We promote, on a scheduled and regular bases, continuous training of our staff and we are permanently following the evolution of the industry, instructing techniques and innovative knowledge to our technicians.

Quality policy

The quality policy is based on the management's commitment in the implementation of the quality system, as well as in the continuous improvement of its effectiveness. Our goal is to satisfy customer requirements and expectations of all stakeholders. To this end ECOFIRMA joined the certification process according to norm NP EN ISO 9001:2008 and we pretend to extend the certification in all countries that we operate. Ensuring the improvement of the technical solutions proposed, to guarantee more effective management of human and financial resources, that will be reflected in the satisfaction of our customers.



Individual and collective security is a daily motivation. We care and guarantee that all the occupational health, hygiene and safety of all our employees will be compliance. We analyze the risk so we can eliminate the danger and ensure smaller probability of accidents both for people and for the environment. We respect and implement regulated security measures to protect people and goods in our works.

What we do

1. Rehabilitation and waterproofing of structures

More than satisfy, we want to surprise our clients. With rigorous quality standards. We rehabilitate and waterproof various types of structures:

- Reservoirs;
- We operate in all kind of organs of a water treatment plant;
- Ornamental fountains;
- Swimming pools;
- Structures, primarily in concrete;
- Dams.



Treatment of concrete and waterproofing.



Treatment of concrete and waterproofing of potable water reservoir.

3. Execution of core drilling in reinforced concrete slabs

We execute special drilling services in structures, ranging from masonry to the reinforced concrete, for such we utilize hand-held diamond rotary, of high technology and performance to avoid possible impacts, cracks, vibration and dust production.

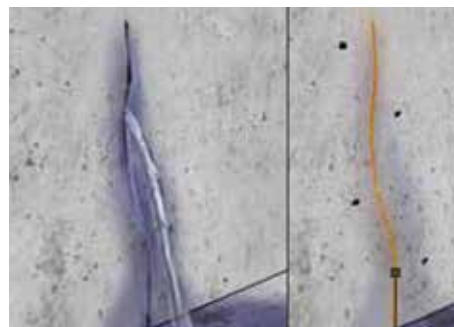
4. Repair and sealing systems by injection

a) Injections by polyurethane (for sealing water in any type of concrete structure):

- Sealing of cracks in concrete reservoirs (buried or high);
- Sealing of inspection boxes, boxes for lifts and pipelines;



Execution of drilling in reinforced concrete slabs.



Injections of polyurethane.

The success which we conclude demanding projects is the best proof of our competence.

2. Structural reinforcement with carbon fibers

We have the technical expertise and experience to perform various types of structural reinforcements and rehabilitations, namely carbon laminates:

- Structural reinforcements of reinforced concrete elements, using carbon laminates, fixed with epoxy resins, in slabs, beams, columns, etc.



Dam tunnel.



Structural reinforcement of rebar concrete slabs.

- Repair of infiltrations on buried walls;
- Repair of infiltrations in special foundations (diaphragm walls and curtains of piles).

b) Injections by gel, which should be placed behind the structure and percolate the soils/concrete interface. The acrylic gel injection aims to protect the concrete structure:

- Consolidation of soils;
- Repair of infiltration in underground structures.

c) Epoxy injections

This is a process of structural rehabilitation of reinforced concrete buildings using structural repair epoxy resins for replacement of the mechanical properties of damaged structural elements, such as beams, columns, slabs, foundations, bridges, tunnels.



Injections of polyurethane.



Gel injection for soil consolidation.

What we do

d) Microciment injections

This type of injections allows the rehabilitation of concrete structures showing cracks and can be applied in different situations:

- Stabilization of granular pavement layers;
- Cracks in general;
- Differential slope of floors and pavements;
- Protective sheaths;
- Filling voids in general;
- Consolidation of soil and rock masses.



Injection resins tower water outlet.



Resin injection for clogging water intake in the diaphragm walls.

All our treatment systems can be installed in areas without electric power supply being powered by photovoltaic panels or via generator.

c) Effluent Treatment Systems

Effluent treatment systems;

- WWTP;
- Compact WWTP.



Effluent waters treatment plant.



Compact effluent treatment plant.

5. Supply, project's, installation and maintenance of water supplies and water treatment

a) Supply systems

We will project, supply and assemble all the electrical and electromechanical equipment.

- Water supply pumping stations and pumping of Effluent Waters.

b) Treatment systems with sodium hypochlorite

- Filtration, using filters with mixed beds with automatic or manual valves;
- Ultrafiltration;
- Reverse osmosis;
- Ultraviolet systems.



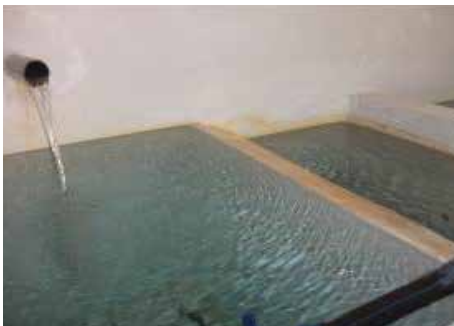
Pumping stations for water supply.



Water treatment system composed of ultra filtration and reverse osmosis system.

d) Pools

Project, supply, install and execute the maintenance of all equipment of swimming pools.



Potable water treatment plant.



Technical assistance for the maintenance and control of the pool water treatment system.

What we do

e) Maintenance of systems

Ensure the project, installation and maintenance of water treatment systems and water supply.

We have a multidisciplinary team able to ensure the best techniques of preventive maintenance.

6. Disinfection

Cleaning and biological disinfection works of structures.

a) Disinfection of water deposits in use

Perform cleaning and non-aggressive chemical disinfection works of drinking water tanks which are in operation and require periodic maintenance.

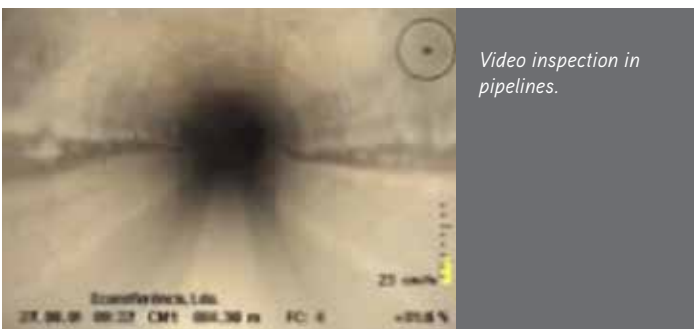


d) Diagnostics for video inspection

Video inspections in wastewater, stormwater pipes, as well as in consumer deposits and water tanks. This allows to detect anomalies that are not visible otherwise.

e) Portable tanks disinfection

Disinfection work of portable tanks.

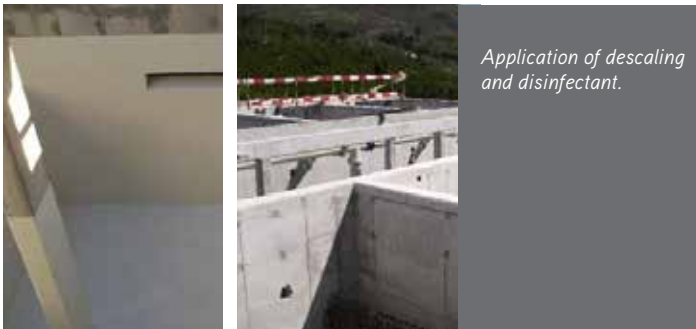


b) Disinfection of new water tank

Cleaning and non-aggressive chemical disinfection for drinking water tanks before its first use.

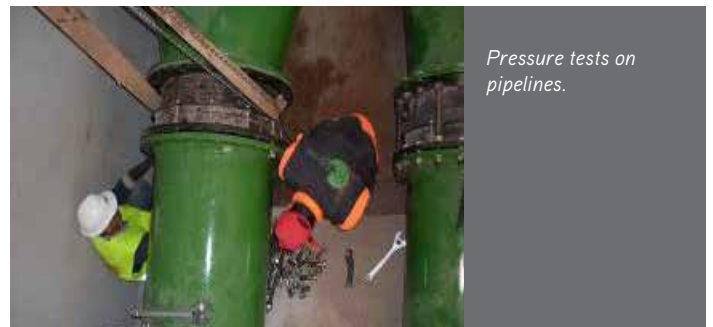
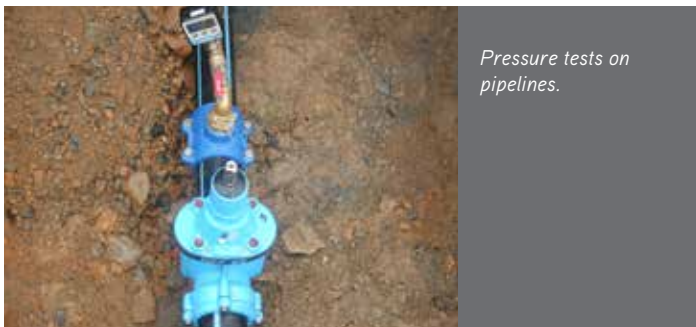
c) Pipelines disinfection

Perform cleaning and disinfection in non-aggressive chemical pipelines and distribution networks.



7. Pressure tests on pipelines

Verification of visco elastic behavior of water networks, identifying losses and pressure testing of the final operating conditions.



Some reference works

ANGOLA

Water leakage treatment.

Supply and Assembly of water distribution center.



Gove dam, Huambo.



Kifangondo.

PORTUGAL

Waterproofing of swimming pools (and technical).

Treatment of concrete joints.



*EUROSTADIUM
complex of Coimbra.*



*Adductor Pedrógão,
Moura.*

ALGERIA

Resin injection in cracks with water leakage.



*Treated Water deposit
of Desalination Unit,
Skikda.*



*Treated Water deposit
of Desalination Unit,
Skikda.*

Treatment of water leakage in deposits.



*High water tank
Ondjiva.*



*Water treatments
system maintenance.*

Rehabilitation of drinking water tanks, irrigation and fire.



*Hotel Falésia S.A.
Albufeira, Algarve.*

High deposit's integral rehabilitation of drinking water.



*High deposit of the
School of Naval
Fuzileros, Barreiro.*

Instrumentation, electrical and automation.



*Desalination of
Honaine, Tlemcen.*



*Wastewater Treatment
Plant Hassasna.*

Some reference works

Spain

Inner liner of hot water accumulators.



*Torre Agbar,
Barcelona.*



*Torre Agbar,
Barcelona.*

Inner liner of hot water accumulators.

Provision and application of joint protection system.



*Construction of natural
gas deposit.*



*Treatment of joint
protection.*

MOROCCO

Structural reinforcement of reinforced concrete slabs.



*Canadian Embassy in
Rabat.*

Where we are

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