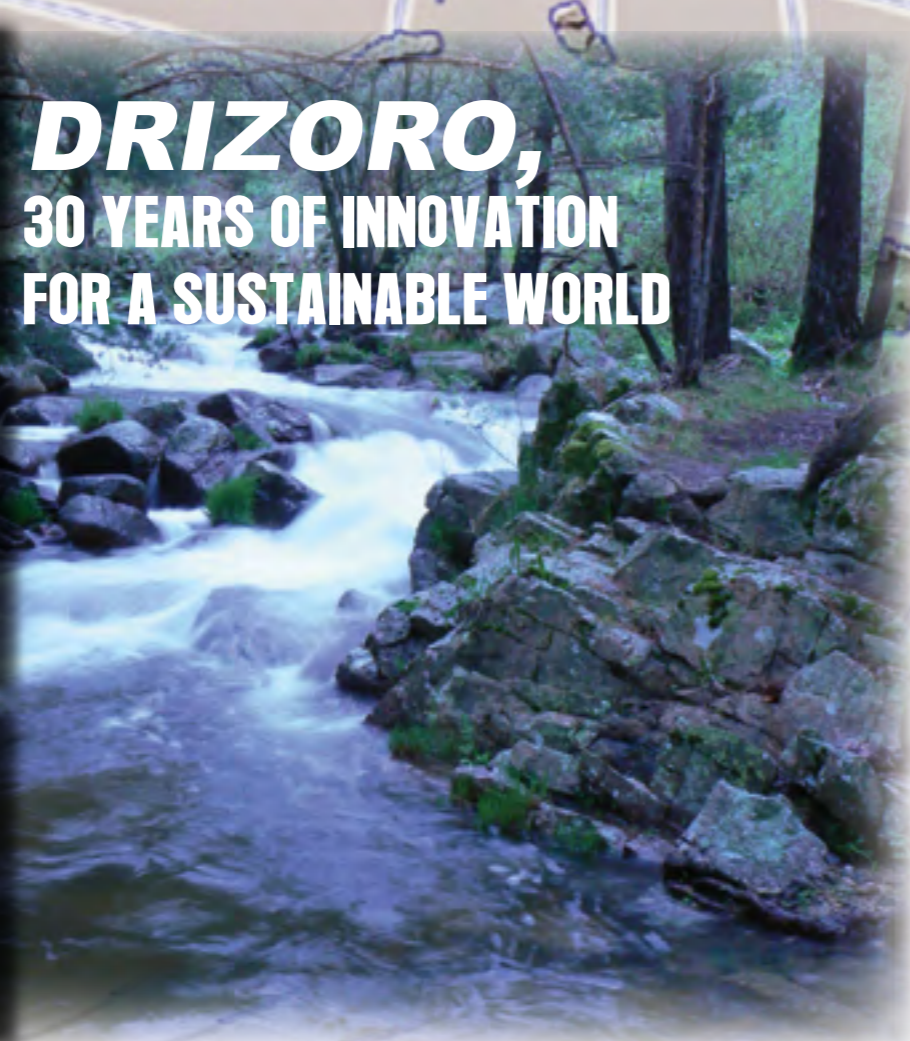


**DRIZORO,
30 YEARS OF INNOVATION
FOR A SUSTAINABLE WORLD**

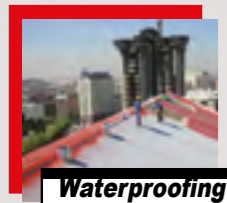
DRIZORO
Construction Products

PRODUCTS AND SYSTEMS

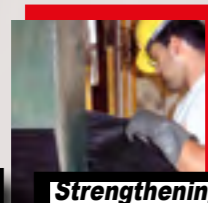
Wastewater Treatment Plant



Drizoro Technical Solutions



Waterproofing



Strengthening



Decoration



Repair



Protection



Anchoring

TECHNICAL ADVICE:
902-193-907



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**Systems for Waterproofing,
Structural Repair and Protection**

DRIZORO, S.A.U.

DRIZORO® , S.A.U. established in 1977, is today an independent Spanish company within the chemical industry, specialized in the Building Industry.

Its products are present on the five continents and its technical and after-sales service are crucial for its clients.

Specializing in its industrial activity based on the development of construction products which have led it to its sector in areas as significant as the repair of concrete structures.

Meeting the highest standards of quality and after-sales service, **DRIZORO® , S.A.U.** has a management system certified by EN-ISO 9001 & EN-ISO 14001 standards.



Products y Systems

DRIZORO has maintained a continuous improvement process and research to offer building systems that provide the best solutions for waterproofing works, structures repair and reinforcement, masonry and concrete protective and decorative, joint treatment, fixing and grouting ceramic industrial flooring and finishing.



Technical Advice

Our technical department and sales engineers, consisting of engineers and architects with extensive experience in the sector give advice on the best solution to implement, depending on the specific pathology suffered by the structure. Additionally and optionally, our staff monitors the implementation of the proposed systems and products so as to guarantee an optimal result thereof.

DRIZORO enables diverse channels to solve any doubt or explanation about its products and technical solutions, or to request additional information.

Technical Advice Telephone: 902-193-907 **E-mail:** info@drizoro.com

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Introduction

DRIZORO thanks to its wide international experience supported by multiple projects continues research and developing products for waterproofing, repair and protection of structures under severe aggressive conditions.

New products allow an adequate concrete and masonry surface protection, both new construction and old buildings restoration.

Concrete structures, correctly designed and precisely performed, will have a long durability if they are affected only by natural ageing.

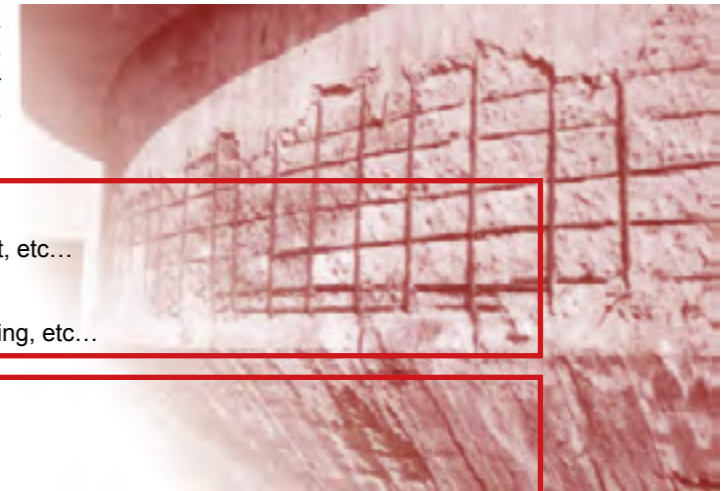
In permanent immersion condition, often in contact with aggressive waters, mechanical actions, such as abrasion and impacts and the effects of environmental agents such as freeze and thaw cycles, rain showers, pollution, etc...are severe conditions for the concrete. Thus, it is highly advisable to apply additional protection in order to increase its durability.



2. Repair and Maintenance Protectores

Repair and Maintenance of Existing Constructions

Existing old constructions, where it may be necessary the repair of the damage as a result of the weakening of the structure, should be necessary to check correctly the origin of the damage in order to adequate the most suitable procedure for the repair, the products and the technology to apply and thus to extend its lifetime.



Structure damage classification;

- Point: Honeycombs, caves, exposed steel rebar reinforcement, etc...
- Lineal: Fissures, cracks, joints, etc...
- Surface: Lost of concrete cover, lose pieces of concrete, wearing, etc...

An effective repair must satisfy the following objectives;

- Restore the original section of the repaired element.
- Make an adequate protective coating for the steel rebar's
- Protect the steel rebar from future corrosion.
- Replace the steel rebar's reinforcement damaged by corrosion.
- Protect concrete against carbonation.
- Protect the surface from external actions both chemical and mechanical.



CONCRETE REPAIR AND REINFORCEMENT

Structural repair mortars **MAXREST®**, **MAXRITE® (500, 700, F y S)** range, surface regularization mortars type **CONCRESEAL® 3 and 5**. Levelling and anchoring structural mortars **MAXGROUT®** and **MAXGROUT® -HR**.

Steel reinforcement passivating materials, **MAXREST® PASSIVE** and **MAXRITE® PASSIVE** and epoxy priming for steel surfaces protection **MAXEPOX® -AC**.

Structural strengthening system with carbon fiber **DRIZORO® WRAP**.

Bonding agent with epoxy resins **MAXEPOX® BOND** and acrylic based **MAXBOND®**.

PROTECTION OF THE REPAIRED CONCRETE

Cement based mortars and coatings for protection such as **CONCRESEAL® PLASTERING**, as a polyurethane protector **MAXURETHANE®**, tar modified epoxy based **MAXEPOX® TAR**, carbonation protection acrylic-based coatings **MAXSHEEN®** and **MAXSHEEN® ELASTIC**, and flexible and waterproofing mortar **MAXSEAL® FLEX** with a high protection against carbonation, chloride and freeze-thaw cycles.



1.2. New Construction Structures

1.1. New Construction Structures



PROTECTION AGAINST ABRASION

In those areas where the concrete may be subject to abrasion under the direct action of high velocity regimen of water or due to the permanent contact with floor scraper, it needs to be protected with an abrasion resistant render such as **CONCRESEAL® PLASTERING**.

The rolling pathways of desanders and desilters, floor sweepers, etc... should be protected with **MAXEPOX® MORTER** or **MAXFLOOR® CEM**.



JOINTS

The design and properly performance of the cold joints and expansion joints are one of the most important elements to take in account in any project. To meet the requirements of waterproofing, we provide a wide range of water reactive profiles **MAXJOINT® W-SEAL**, that increase its volume up to 4 times, sealing the joints and stopping the water leaks.

To seal the surface we provide polyurethane sealers such **MAXFLEX® 100**, polysulphide sealers such as **MAXFLEX® 900** and cement based sealers such as **MAXJOINT® ELASTIC**. If great movement or displacement is expected in the joints, we provide elastic strip **MAXFLEX® XJS** in different sizes

JOINTS REPAIR

Reshaping joints with structural cement based mortars **MAXREST®** or **MAXGROUT®**, or with epoxy based **MAXEPOX® MORTER**.

Water reactive rounded profiles **MAXJOINT® W-SEAL** to ensure water tight sealing and sealers such as **MAXFLEX®** to fill the joints.



ANCHORING OF ELEMENTS

Anchoring of elements can be made with cement based mortars such as **MAXGRIP®**, **MAXGROUT®** or with chemical resins for anchoring **MAXFIX® V, P** and **E**.

Waterproofing and Protection

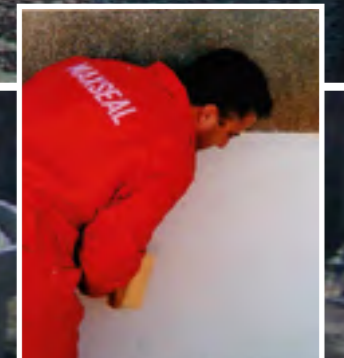


A sewage treatment plant is made of a complex installation in which the residual water circulates and where different chemical and mechanical processes are performed in order to separate the solid suspension load from the water.

One of the main requirements of these structures is the watertight sealing to avoid the water leaking into the ground. To meet this requirement we have the waterproofing systems **MAXSEAL®**, **MAXSEAL® FLEX** and **MAXSEAL® SUPER**. For waterproofing and protection of buried structures in contact with the ground is available **MAXSEAL® FOUNDATION**.

CHEMICAL ATTACK PROTECTION

Elements and structures under chemical attack should be protected with resistant coatings to avoid degradation, to perform this task are available polyurethane based products such as **MAXURETHANE®**, **MAXURETHANE® TOP** or **MAXURETHANE® 2C**, tar modified epoxy coatings such as **MAXEPOX® TAR** or epoxy based coatings such as **MAXFLOOR®**, **MAXEPOX® 800** or **MAXEPOX® MORTER -V**.



TECHNICAL AND INDUSTRIAL BUILDINGS

On this application field, we provide solutions for flooring systems such as cement based self levelling mortar **MAXFLOW®** or epoxy based **MAXEPOX® 3000**, and **MAXEPOX® FLOOR**, the polyurethane protection coatings such as **MAXURETHANE®** or epoxy based protection coatings such as **MAXFLOOR®**. For facades protection, we provide the acrylic-based coatings such as **MAXSHEEN®** or **MAXSHEEN® ELASTIC**, and also **MAXELASTIC®** for roofs waterproofing.





DRIZORO Systems


1

Waterproofing



MAXSEAL® 
Cement-based, waterproof coating for concrete structures and masonry subjected to positive, negative hydrostatic pressure conditions or both. Suitable for drinking water.

MAXSEAL® FLEX 
Flexible, cement-based, waterproof and protective coating for concrete structures and masonry subjected to positive, negative hydrostatic pressure conditions or both. Suitable for drinking water.

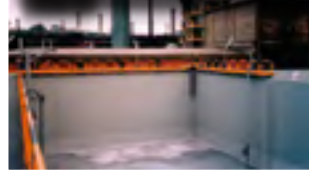
MAXSEAL® SUPER 
Osmotic, cement-based, waterproof coating for concrete surfaces and masonry subjected to positive, negative hydrostatic pressure conditions or both. Suitable for direct contacts with drinking water.


MAXEPOX® FLEX 
High performance, flexible, solvent free and epoxy-based, waterproof and protective coating for metal and concrete surfaces. Suitable for drinking water.





2

Chemical Attack Protection



MAXURETHANE® 
Clear, one-component, solvent-based polyurethane, protective floor coating with exceptional chemical resistance for interior applications. Suitable for drinking water.

MAXURETHANE® TOP 
One-component, high weathering resistant, elastic, clear aliphatic polyurethane-based, protective coating for interior and exterior applications.

MAXURETHANE® 2C 
Two component, high weathering resistant, elastic aliphatic polyurethane-based, protective coating for interior and exterior applications. Available in matt and gloss versions and clear and different colours. Suitable for drinking water.

MAXEPOX® TAR
Epoxy and tar-based, waterproof and protective coating for concrete and metal surfaces.

MAXEPOX® TAR -K
Solvent-free, flexible and waterproof coating based on modified tar-epoxy free from coal tar for concrete and metal surfaces.

MAXEPOX® TAR -F
Flexible, epoxy and tar-based, waterproof and protective coating for concrete and metal surfaces.

MAXEPOX® 800
High chemical resistant, free-solvent epoxy-based, protective and decorative coating for food industry.




Buildings and Instalations

3




MAXFLOW®
Two-component, high strength, cement-based, fiber-reinforced, repair finishing and self-levelling mortar for exterior applications. Available in different colours.

MAXEPOX® 3000 
Three component, epoxy based, self-levelling and decorative mortar with high performance for concrete surfaces and floors. Available in different colours.

MAXSHEEN®
Water-based acrylic, waterproof, protective and decorative coating for exterior and interior applications. Available in 2 versions (smooth and textured) and 16 different colours.

MAXSHEEN® ELASTIC
High elasticity, water-based acrylic, waterproof, protective and decorative coating with high performance for facades, concrete surfaces and masonry subjected to movements or with fissure risk. Available in 2 versions (smooth and textured) and 16 different colours.


MAXELASTIC® 
One-component, water-based acrylic, elastic and waterproof coating for roofs, balconies and terraces. Available in 6 different colours.



Protection Against Abrasion

4



CONCRESEAL® PLASTERING 
Waterproof and levelling mortar with decorative texture for finish and protection of concrete and masonry from weathering, water and marine environment.

MAXEPOX® MORTAR
Pigmented epoxy-based binder for flooring systems. Available in clear version and different colours.

MAXURETHANE® 2C
Two component, high weathering resistant, elastic aliphatic polyurethane-based, protective coating for interior and exterior applications. Available in matt and gloss versions and clear and different colours. Suitable for drinking water.

5

Joints

MAXJOINT® W-SEAL
is an elastic and water swelling profile made of pre-formed hydrophilic resins that increases its volume up to four times when it is in direct contact with water for sealing joints and cracks in concrete and masonry.

MAXFLEX® 100 HM
High modulus, one component, elastomeric polyurethane-based adhesive-sealant. Available in different colours.

MAXFLEX® 900
Two component, low modulus, high chemical resistant, polysulphide-based, elastomeric sealant of permanent contact with water.

MAXJOINT® ELASTIC
Elastic, two component cement-based, repair and sealing mortar for joints and cracks in concrete and masonry. Suitable for drinking water.


MAXFLEX® XJS
Elastic sealing system consisted of elastics strips with lateral geotextile fleece edges for expansion joints, corners or cracks. Available in 120 mm, 140 mm, 170 mm and 375 mm width.





Anchoring of Elements

6

MAXGRIP®
Pourable, quick-setting, non-shrink, one component, cement-based, anchoring mortar with high fluidity for concrete and masonry.

MAXGROUT® 
Non-shrink, high strength and fluidity grout for filling, anchoring and structural repair applications.

MAXGROUT® -HR 
Fast-setting, non-shrink, high strength and fluidity grout for filling, anchoring and structural repair applications.

MAXFIX® -V 
Fast curing, two-component, vinyl ester-based, fastening, anchoring and bonding cartridge system for anchors into concrete and solid or hollow masonry.

MAXFIX® -E
Two-component, epoxy-based, fastening, anchoring and bonding resin with long open time life for threaded rods and reinforcing bars into concrete and solid masonry.


MAXFIX® -P
Fast curing, two component, polyester-based, fastening and anchoring cartridge system for anchors into concrete and solid or hollow masonry.





Repair and Reinforcement


7


MAXREST® 
Non-shrink, thixotropic, fast-setting, structural repair mortar.

MAXRITE® -S 
Non-shrink, thixotropic, long-setting, polymer-modified, structural repair mortar. Suitable for wet or dry shotcrete means or manual applications.

MAXRITE® 500 / 700 
Non-shrink, thixotropic, fast-setting, polymer-modified, fiber-reinforced, structural repair mortar with corrosion inhibitors.

MAXRITE® -F 
Non-shrink, thixotropic, normal-setting, microsilica-enhanced, polymer-modified, fiber-reinforced structural repair mortar.

MAXREST® PASSIVE 
One-component, water-based anti-corrosive and protective primer barrier for reinforcing steels and iron elements.

MAXRITE® PASSIVE 
One-component, cement-based coating and bonding primer with corrosion inhibitors for reinforcing steels.

MAXEPOX® AC
Two-component and water-based epoxy primer with corrosion inhibitors for protection of metal surfaces.

MAXEPOX® BOND
Two-component, solvent free epoxy-based bonding agent for the bonding of construction materials.

MAXEPOX® BOND -W
Two-component, solvent free epoxy-based bonding agent for the bonding of construction materials with humidity in the substrate.

