



# *Innovative solutions for the building chemistry*





**DRIZORO®**, S.A.U. is a Spanish company established in **1977**, beginning its activity as a manufacturer of chemical products for construction. Nowadays, the company is a leader on supplying speciality products and systems designed for waterproofing, concrete repair, flooring and decorative finishes.

Our **Headquarters** and Production Plant is based in **Madrid** (Torrejon de Ardoz) - Spain. This is also the base for all operations of the different departments; Production, Research & Development, Laboratory, Technical, Sales, Marketing and Administration.

#### **COMMITMENT TO QUALITY AND ENVIRONMENT**

Our strong commitment to Quality Control and the Environment has led us to establish an Integrated Quality and Environmental Management System. This is based on the ISO 9001:2015 and ISO 14001:2015 standards. This system was certified by *Bureau Veritas Quality International*.



#### **COMMITMENT TO RESEARCH, DEVELOPMENT AND INNOVATION**

Our strong commitment to Research and Development of both our product range and of human resources enables us to offer the market innovative systems with a high standard of quality whilst being mindful of environmental concerns. These developments are transferred into improvements to our products range. This is based on substantial market research, including on-site experience under the most adverse worldwide conditions, combined with laboratory studies.

#### **TECHNICAL ASSISTANCE**

Our Technical Department and Sales Network comprises of highly qualified professionals with wide experience and trained in the construction industry. They provide personalized advice to our clients during all phases of construction in order to specify the most suitable system of products

## DRIZORO® IN THE WORLD. GLOBAL PRESENCE

Since the beginning of its activity, **DRIZORO®**, S.A.U. has developed the expansion of new markets and currently has a large international presence that takes the form of Delegations and/or Authorized Distributors in more than 35 countries on 5 continents.

**Algeria, Arabia Saudi, Australia, Austria, Azerbaijan, Belarus, Belgium, Bulgaria, Canada, Colombia, Costa Rica, Croatia, Cyprus, Czech Rep., Ecuador, Estonia, Finland, France, Georgia, Germany, Greece, Holland, Hong Kong, Hungary, India, Iran, Ireland, Italy, Kuwait, Latvia, Lebanon, Lithuania, Malaysia, Malta, Mauritania, Mexico, Morocco, New Zealand, Norway, Panama, Philippines, Poland, Portugal, Puerto Rico, Qatar, Romania, Russia, Senegal, Slovakia, Sweden, Switzerland, Taiwan, Thailand, Turkey, UAE, Ukraine, United Kingdom, Vietnam, ....**



### CUSTOMER SUPPORT:

Our Technical Department is at your disposal for any questions that you may need solved easily and quickly by phone/fax:

**+34 916 766 676**

**+34 916 776 175**

**+34 916 757 813 (Fax)**

If you prefer, you can send your inquiries via email to:

**info@drizoro.com**

or, to the following postal address:

**C/ Primavera 50-52**

**Polígono Industrial Las Monjas**

**28850 Torrejón de Ardoz - Madrid - SPAIN**

### For your convenience:

- Technical Bulletins,
  - Safety Data Sheets,
  - Declarations of Performance,
  - Jobs References,
  - New Products and Systems,
- and other useful and update information is available on **DRIZORO®** Web site:

**www.drizoro.com**



# WATERPROOFING, REPAIR AND PROTECTION SYSTEMS FOR HYDRAULIC WORKS



Due to its extensive experience worldwide, based on numerous and varied hydraulic works carried out both in the international and national market, such as water tanks, sewage treatment plants, channels, dams, pipes, sewers, etc., **DRIZORO®** has of the capacity to carry out an intense R & D activity on products suitable for waterproofing, repair, and protection of structures subjected to very diverse conditions of use, exposed to very different types of water, and/or different environmental conditions.

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

## **DRIZORO® SYSTEMS FOR WATERPROOFING AND PROTECTION**

- **MAXSEAL® FLEX** system: continuous coating of a two-component, flexible, cement-based waterproofing mortar.
- **MAXEPOX® FLEX** system: 100 % solids, solvent free, two-component, flexible, epoxy-based waterproof coating.
- **MAXURETHANE® FLEX** system: 100 % solids, solvent free, two-component, flexible, polyurethane-based waterproof coating of high performance.
- **MAXELASTIC® POLY** system: Hot or cold applied, 100% solid, two-component, flexible, polyurea-based waterproof coating.

## **ADVANTAGES FOR DRIZORO® SYSTEMS**

- ✓ **WATERPROOFING** of concrete structures in conditions of permanent immersion conditions in drinking water.
- ✓ **CHEMICAL PROTECTION** of concrete structures against chemical attack by aggressive water.
- ✓ **MECHANICAL PROTECTION** of concrete structures against abrasion and other damages.
- ✓ **SEALING OF JOINTS** subjected to permanent immersion conditions.
- ✓ **REPAIR AND STRENGTHENING** of damaged concrete structures.

# WATERPROOFING AND FINISHING OF SWIMMING POOLS



**DRIZORO® Waterproofing & Finishing Systems** for swimming pools are based on the use of materials that comply the highest standards for reliability and longer durability.

Waterproofing for swimming pools is achieved by applying **MAXSEAL® FLEX**, a continuous coating of flexible cement-based mortar. This material is particularly suitable for concrete surfaces having micro-cracks or subjected to small movements such as swimming pools.

After a curing time from 7 to 10 days for the **MAXSEAL® FLEX** waterproof coating, the **CONCRESEAL® PLASTERING -M** levelling and finishing mortar with high mechanical strength is applied. Finally, surface is coated with the **MAXURETHANE® 2C** (coloured) or **MAXURETHANE® POOL** (transparent) high performance aliphatic polyurethane coating.

For ceramics, tiles or stoneware finish, the use of the **MAXKOLA® FLEX** flexible tiling mortar is recommended. For grouting, a flexible mortar with high microbiological resistance against algae and fungi, preventing their proliferation into the mortar, such as **MAXJOINT® FLEX POOL**, is used.

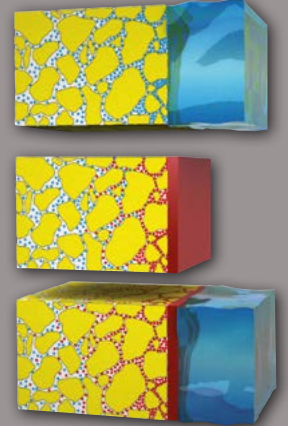
**DRIZORO® Waterproofing & Finishing Systems** also deal with the treatment of out-standing points in swimming pools such as holes from concrete form ties formwork, expansion and cold joints, wall-slab corners, overflow-points, grids, skimmers, passing pipes, lights, ladders, etc.



# WATERPROOFING OF FOUNDATIONS AND UNDERGROUND STRUCTURES



**DRIZORO® Waterproofing system** for underground concrete structures is based on the osmotic performance for **MAXSEAL® SUPER**, i.e. a cement-based mortar with special additives and controlled aggregates which when cured becomes a suitable waterproof coating for both direct and indirect hydrostatic pressure conditions. Its special formula improves the osmotic effect of the application, allowing the **MAXSEAL® SUPER** penetration in the concrete through its capillary system. Thus, product crystallises inside of the capillary network, sealing, waterproofing and protecting the concrete element. **MAXSEAL® SUPER** has been designed to be applied on both fresh and cured concrete (pre-cast concrete, concrete blocks or cement plasters) but is also suitable for applications on brick, porous stone, and panels, cement renders and masonry units in general.



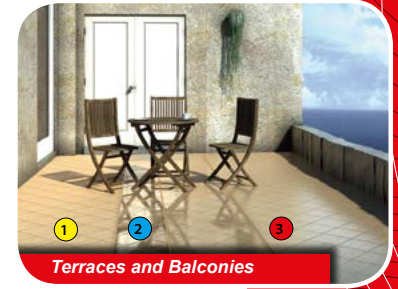
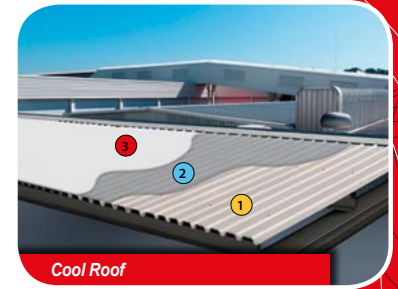
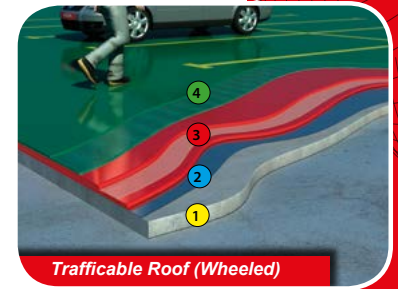
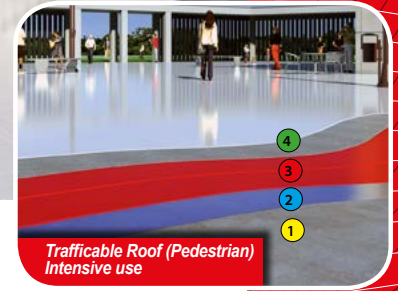
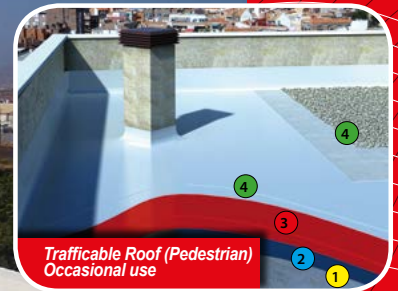
CRYSTALLIZATION AND SEALING OF CONCRETE CAPILLARY NETWORK

## SEALING PROCESS BY OSMOSIS →

### ADVANTAGES OF MAXSEAL® SUPER SYSTEM

- ✔ **OSMOTIC PERFORMANCE:** Internal sealing and protection.
- ✔ **WATERPROOFING OF HIGH PERFORMANCE BY INTERNAL CRYSTALLISING EFFECT**
- ✔ **HIGH TENSILE STRENGTH**
- ✔ **HIGH RESISTANCE TO HYDROSTATIC PRESSURE:** Both positive and negative conditions.
- ✔ **SUITABLE FOR APPLICATION ON WET SURFACES**
- ✔ **EASY TO APPLY:** Dry-shake method.
- ✔ **CE-MARKING:** EN-1504-2
- ✔ **SUITABLE FOR DRINKING WATER:** BS 6920
- ✔ **ADEQUATE SUBSTRATE FOR TOP FINISHING:** coating, tiling, etc.

# WATERPROOFING OF ROOFS



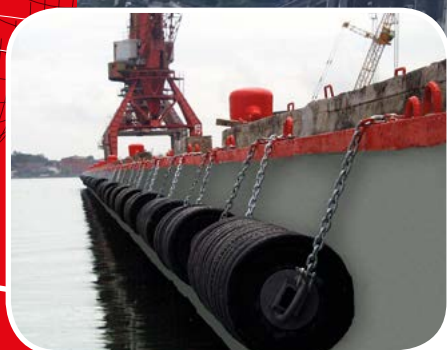
DRIZORO® provides different systems composed of continuous elastic membranes for waterproofing all types of roofs, terraces and balconies, facades, partition walls or vertical surfaces. These systems have the appropriate CE marking.

TYPE	SUBSTRATE	PRIMING	WATERPROOFING	FINISH	CE
TRAFFICABLE ROOF (PEDESTRIAN) Occasional use	Concrete Mortar	MAXEPOX® PRIMER -W	MAXELASTIC® PUR	MAXELASTIC® PUR -EW	
	Porous Tile Bituminous membrane		MAXELASTIC® PUR -HW	Exposed	
TRAFFICABLE ROOF (PEDESTRIAN) Intensive use	Concrete Mortar		MAXELASTIC® PUR	MAXELASTIC® PUR -EW	
	Porous Tile Bituminous membrane		MAXELASTIC® PUR -HW	MAXURETHANE® 2C-W	
TRAFFICABLE ROOF (WHEELED)	Concrete		MAXELASTIC® PUR	MAXELASTIC® PUR -FW	
			MAXELASTIC® PUR -HW		
GREEN ROOF	Concrete Mortar		MAXELASTIC® PUR	MAXDRAIN® D20 GARDEN & DRIZORO® GEOTEXTILE	
		MAXELASTIC® PUR -HW			
COOL ROOF	Concrete Mortar / Metal	MAXELASTIC® PUR THERMOCOAT	Exposed		
TERRACES AND BALCONIES	Porous-Glazed Tile Stoneware	MAXPRIMER® PUR -W	MAXELASTIC® TRANS -W	Exposed	

## ADVANTAGES FOR DRIZORO® SYSTEMS

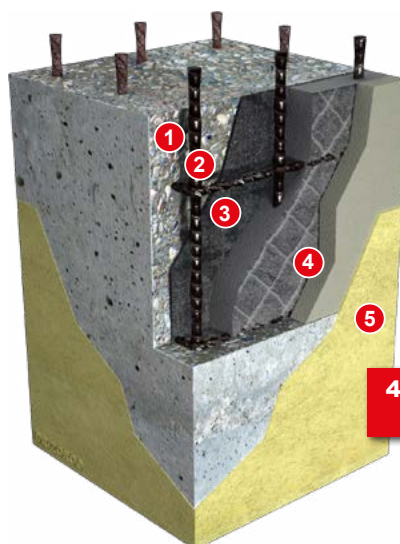
- ✔ Provides a **CONTINUOUS COATING** without joints or connections, fitting to the geometry of the substrate.
- ✔ **HIGH ELASTICITY**, even in extreme weather conditions of high and low temperatures.
- ✔ **EXCELLENT CRACK-BRIDGING ABILITY**. Absorbs thermal movements of substrate as well as vibrations.
- ✔ **EASY TO APPLY** by brush, roller or air-less gun.
- ✔ Suitable for **PERMANENT IMMERSION APPLICATIONS**.
- ✔ **UV RAYS AND ABRASION RESISTANT**. Suitable for pedestrian and wheeled traffic.
- ✔ Good **CHEMICAL RESISTANCE** to de-icing salts, seawater, wastewater, diluted alkali and acid solutions.

# RESTORATION AND REPAIR OF CONCRETE STRUCTURES



**DRIZORO®** provides a wide range of high performance products suitable for repair and protection of concrete structures.

Non-structural and structural repair mortars, levelling fluid mortars and screeds, thixotropic mortars suitable for mechanical or manual applications with sulphate-resisting characteristics, synthetic fibres, and/or corrosion inhibitors are available for professionals.



**1. Substrate preparation:**  
Concrete and reinforcing bars

**2. Protection against corrosion:**  
Reinforcing bar treatments

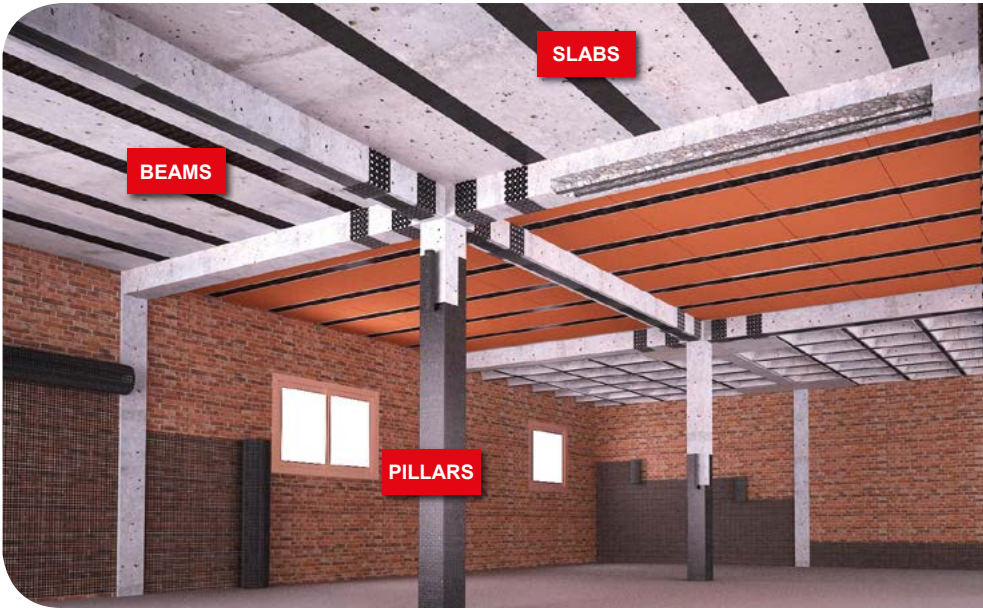
**3. Structural adhesion:**  
Bonding agents

**4. Non-structural and structural repair:**  
Thixotropic and fluid repair mortars

**5. Surface protection:**  
Impregnations and coatings



# CARBON FIBRE STRENGTHENING SYSTEM



## DRIZORO® PROVIDES A WIDE RANGE OF CARBON FIBRE STRENGTHENING SYSTEMS FOR RETROFIT OF CONCRETE STRUCTURES.

These strengthening systems are supported by Technical Approval (Documento de Idoneidad Técnica-DIT) from Instituto de Ciencias de la Construcción Eduardo Torroja.

- **DRIZORO® COMPOSITE** system is composed of a pre-formed laminates with unidirectional carbon fibre embedded in an epoxy resin matrix and formed by a continuous pultrusion process. These laminates are bonded to the surface with epoxy structural mortars.
- **DRIZORO® WRAP** system is composed of unidirectional fabric of pure carbon fibre in different width, thickness and elasticity modulus. These fabrics are bonded to the surface with epoxy resins leading an in situ composite.
- **DRIZORO® WRAP QUADRIAXIAL** system is composed of a fabric of high strength carbon fibre, arranged in four directions. These fabrics are bonded to the surface with epoxy structural resins leading an in situ four-directional composite.
- **DRIZORO® CARBOMESH** system is composed of a flash mesh of high strength carbon fibre, arranged in two orthogonal directions. These meshes are bonded to the surface with epoxy structural mortar or cement structural mortar leading an in situ bidirectional composite.
- **DRIZORO® CARBOROD** system is composed of a pre-formed rods with unidirectional carbon fibre embedded in an epoxy resin matrix and formed by continuous pultrusion process. These rods are bonded to the surface with epoxy structural mortar.
- **DRIZORO® WRAP CONNECT / DRIZORO® CARBO CONNECT.** Carbon fiber connectors.

**DRIZORO®, S.A.U.** provides technical assistance to allow the Project Manager, calculation and description of the strengthening project for execution, including all the necessary information of each system components.



## ADVANTAGES FOR DRIZORO® CARBON FIBRE STRENGTHENING SYSTEMS

- ✓ **HIGH TENSILE STRENGTH.**
- ✓ **LIGHTNESS.**
- ✓ **VERSATILE.** Adapts to any type of structure.
- ✓ Provides **STRAIN COMPATIBILITY** between fibre and structural elements.
- ✓ **FLEXURAL, SHEAR AND AXIAL COMPRESSIVE STRENGTHENING.**
- ✓ **FAST AND EASY APPLICATION.**
- ✓ **HIGH DURABILITY.** No maintenance required.
- ✓ Easy method for calculating the fibre required by **DRIZORO® STRENGTHENING SOFTWARE.**

## SYSTEM OF PASSIVE FIRE PROTECTION

**DRIZORO®, S.A.U.** and **PROMAT IBÉRICA S.A.** have collaborated in the development of an exclusive system of passive fire protection for carbon fiber strengthening systems; **DRIZORO® WRAP** and **DRIZORO® COMPOSITE.**

**RESISTANCE TO FIRE: 120 Minutes**  
Licof - Classification  
Report No.: 9397/17-2.



# FLOORING SYSTEMS



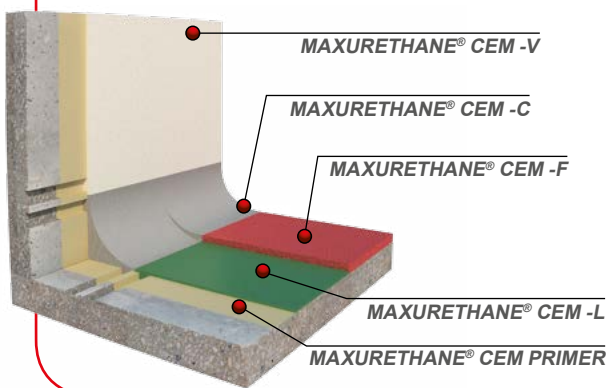
## APPLICATION FIELDS

- Commercial areas and malls
- Industrial facilities
- Education and institutional facilities
- Showrooms
- Food Industry and cold storages
- Sport facilities
- Car parking areas and garages
- Mechanical workshops
- Plant rooms and technical areas
- Warehouses and loading docks



SYSTEM	PRODUCT	CE MARKING	
		EN 1504	EN 13813
EPOXY RESINS	MAXEPOX® FLEX	X	
	MAXEPOX® FLOOR		X
	MAXEPOX® 3000		
	MAXEPOX® DECOR		
POLYURETHANE RESINS	MAXURETHANE®	X	
	MAXURETHANE® TOP / -W / 2C / 2C-W		
	MAXURETHANE® FLOOR		X
CEMENT-BASED MORTARS	MAXPATCH® / -M	X	
	MAXROAD® / EXPRESS		
	MAXLEVEL® SUPER / SILENT / 30		X
	MAXFLOW® / 500		
	MAXRITE® -S / -F / FLOOR	X	
PU-CEMENT SYSTEMS	MAXURETHANE® CEM -L / -F		X
POLYUREA RESINS	MAXFLOOR® POLY / -M		
MMA RESINS	MAXFLOOR® MMA System		

## POLYURETHANE-CEMENT FLOORING MAXURETHANE® CEM SYSTEM

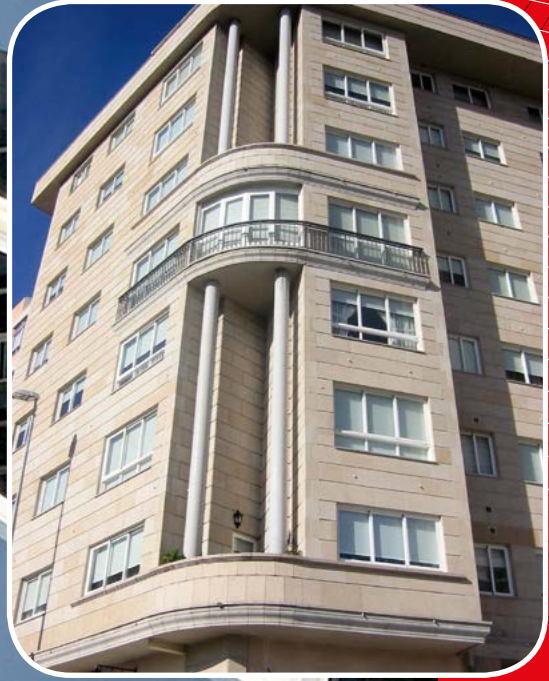


## ADVANTAGES FOR RESIN FLOORING SYSTEMS

<p>Strong and permanent adhesion to the concrete base.</p>	<p>Excellent chemical resistance.</p>	<p>Liquids waterproofing.</p>	<p>High hardness, durability and impact/abrasion resistance.</p>
<p><b>EASY</b></p> <p>Surface for easy cleaning and maintenance.</p>	<p><b>NO</b></p> <p>High resistance to cracking.</p>	<p><b>QUICK</b></p> <p>Fast application and curing, with minimum alteration of the use.</p>	

- ✓ Higher **THERMAL RESISTANCE** compared to epoxy floorings: from -40 ° C to +150 ° C.
- ✓ Suitable for thorough cleaning with **PRESSURIZED STEAM**: application thickness greater than 9 mm.
- ✓ High **MECHANICAL STRENGTHS**: compressive, abrasion, flexural, impact, hardness, etc.
- ✓ Higher **CHEMICAL RESISTANCE** compared to epoxy flooring.
- ✓ Suitable for substrates with some **DEGREE OF MOISTURE** and short-term ageing concrete (after 7 days of curing).
- ✓ Applicable in thicknesses **UP TO 10 mm** per coat without sagging.
- ✓ **CONTINUOUS FLOOR SYSTEM** without joints.
- ✓ **NON-FLAMMABLE, SOLVENT-FREE AND ODOR-FREE**: suitable for poor ventilated working areas.

# REPAIR, PROTECTION AND FINISHING OF FAÇADES



**DRIZORO®**, S.A.U. provides specialized systems for rehabilitation and waterproofing of façades, as well as treatment of different pathologies and restoration of architectural heritage projects.

Restoration also involves cleaning and removing the damaged structural elements, and then the application of protective products of the **DRIZORO®** range.

## **DRIZORO®**, S.A.U. OFFERS THE FOLLOWING SYSTEMS:

- Non-structural and structural repair mortars.
- Waterproofing mortars and other coatings for mechanically and manual application.
- Façade renders and decorative coatings.
- Sealers and water repellent agents.
- External thermal insulation composite systems.
- Anti-graffiti protective and treatment systems.
- Raising dampness treatment systems.



# TECHNICAL SOLUTIONS



- ① Waterproofing of roofs and terraces
- ② Restoration of façades
- ③ Waterproofing of indoor wet areas: bathrooms, kitchens...
- ④ Waterproofing of foundations
- ⑤ Treatments for raising dampness
- ⑥ Structural strengthening and repair of concrete structures
- ⑦ Restoration and finishing of flooring
- ⑧ Waterproofing of basements and elevator pits
- ⑨ Waterproofing of swimming pools and drinking water tanks

**DRIZORO**<sup>®</sup>

Construction Products

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