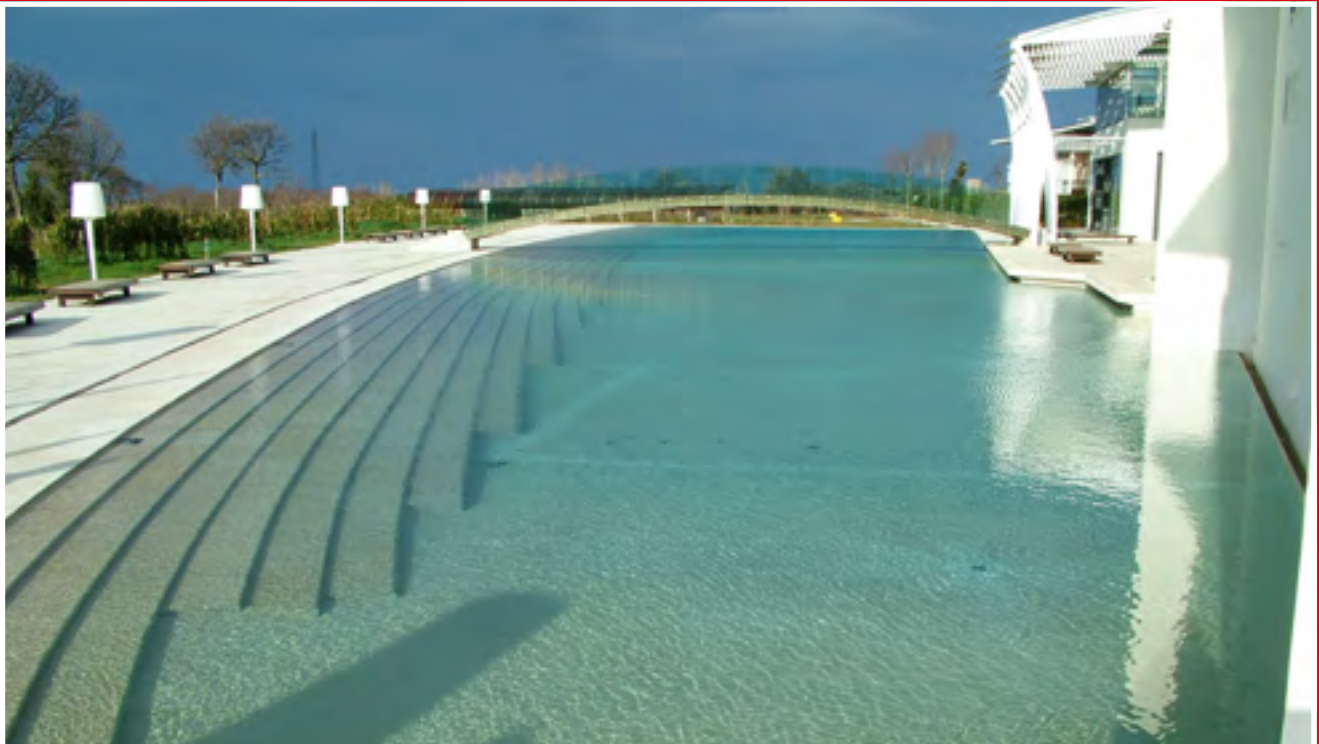




**PRODUCTS AND SYSTEMS**



# ***Waterproofing of Swimming Pools***



**MAXSEAL® FLEX**  
**System for Waterproofing of Swimming Pools**





**COMPANY**

**DRIZORO S.A.U.** is a Spanish company founded in 1977, starting its activity as a manufacturer of chemical products for construction. It is now a benchmark for the sector in solutions for civil engineering and building, in the fields of waterproofing, restoration, protection and finishing of concrete structures.

From our **Headquarters** and Production Center in **Torrejón de Ardoz (Madrid)** all the operations of the different departments are managed; production, R & D, laboratory, technical, sales, marketing and administration.

**COMMITMENT TO QUALITY AND THE ENVIRONMENT**

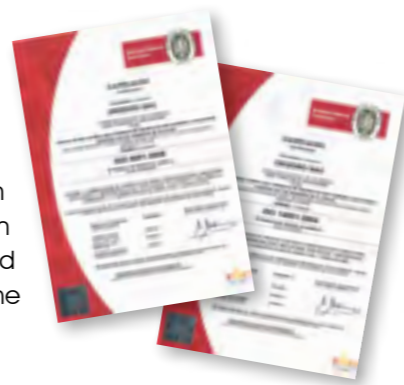
Our strong commitment with Quality and the Environment policies, drive us to the implementation of an Integrated Management System based on ISO 9001 and ISO 14001 standards, and certified by Bureau Veritas Quality International.

**COMMITMENT TO RESEARCH, DEVELOPMENT AND INNOVATION**

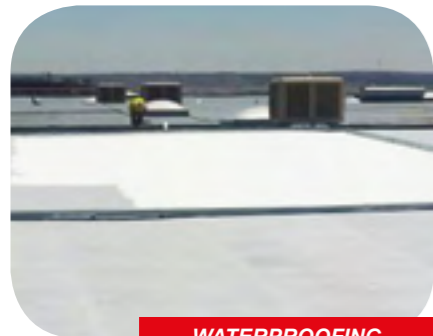
Our continuous commitment to research and development policies, investing both in human resources and in technical means, allows us to offer the market solutions based on the high quality and latest technology systems, and provide innovative solutions supported also by a proven and tested experience under the most adverse conditions throughout the entire world geography.

**TECHNICAL SUPPORT**

Our Technical Department and our Sales Department, consisting of technical professionals with extensive experience in the sector, offers advice in a personalized manner both in the design phase and in the execution phase, with the aim of reaching an optimal prescription and implementation of our proposed products and systems.



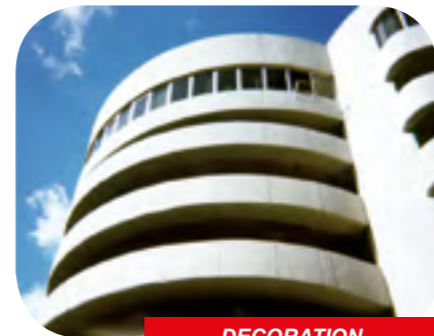
**DRIZORO TECHNICAL SOLUTIONS**



**WATERPROOFING**



**STRENGTHENING**



**DECORATION**



**REPAIR**



**PROTECTION**



**OTHER USES**

Swimming pools, one of the most common building elements in our day, require high technical characteristics and high standards regarding waterproofing.

A proper waterproofing and protection ensures longer service life of structures.

**DRIZORO Waterproofing Systems** are based on the use of materials which satisfy the highest requirements of durability and reliability.



The proposed systems besides getting a water retaining structure watertight, without water losses by filtration, protect the concrete to prevent spoilage, and provide a suitable surface to apply the final coatings of the pool.

The **DRIZORO Waterproofing Systems** also address the execution of out-standing points present in swimming pools such as formwork holes, expansion and cold joints, wall-slab encounters, overflow, grids, skimmers, passing pipes, luminaires, ladders, etc.





## MAXSEAL® FLEX

**MAXSEAL® FLEX** is a particularly suitable material when concrete surface has micro-cracks or is subjected to small movements as in the case of the swimming pools.

The waterproofing the pool structure is achieved by applying **MAXSEAL® FLEX**; continuous coating consisting of a flexible cement-based waterproofing mortar. Applied in two coats with a load of about 1,0-1,5 kg/m<sup>2</sup> each, the water tight of the pool with a thicknesses of 2 mm is achieved.



## SUBSTRATE PREPARATION

Before applying the **MAXSEAL® FLEX** system, cleaning of the surface must be carried out in order to remove any residue or particle that could interfere with the adhesion of the waterproofing mortar.

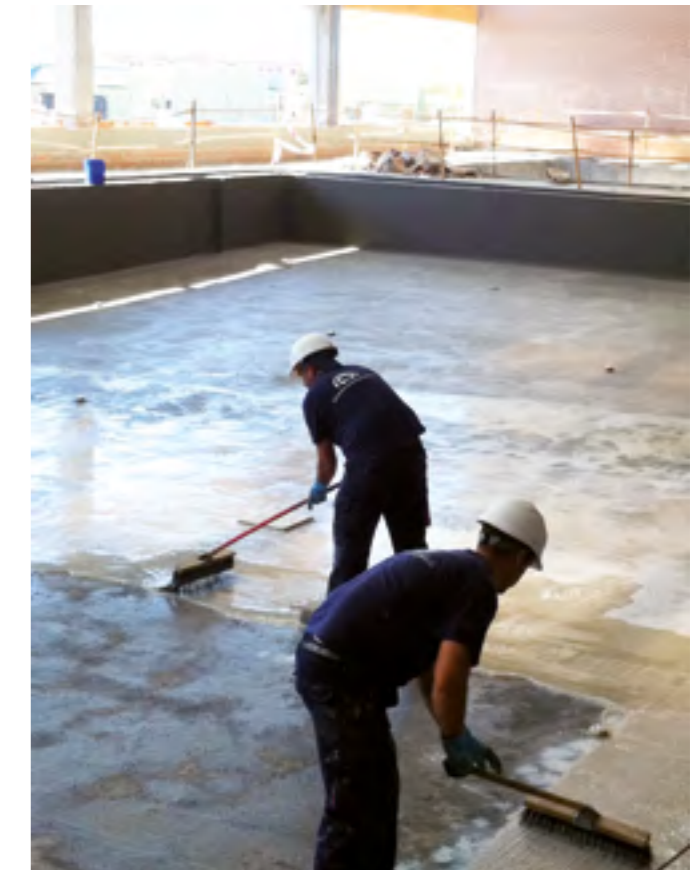


## WATERPROOFING OF SWIMMING POOLS

Once substrate is dampened, two coats of **MAXSEAL® FLEX** are applied with a total thickness of 2 mm, achieving total water-tightness of the structure.

Waterproofing mortar can be applied by brush, broom or also, by spray means in the case of large surfaces.

Once **MAXSEAL® FLEX** is completely cured; the required finishing in each case can be applied.





**MINERAL COATING**

After curing for 7 days of **MAXSEAL® FLEX** waterproof coating, apply the **CONCRESEAL® PLASTERING** decorative high strength finish mortar of high strength in a continuous and uniform thickness from 3 to 5 mm.

**TRANSPARENT AND PROTECTIVE COATING**

**MAXURETHANE® POOL** is a transparent, water-based aliphatic polyurethane coating suitable for protection of the **CONCRESEAL® PLASTERING** mineral finishing on swimming pools, fountains, artificial lakes, etc.



- 1 **MAXSEAL® FLEX**, 1<sup>st</sup> coat
- 2 **MAXSEAL® FLEX**, 2<sup>nd</sup> coat
- 3 Mineral coating: **CONCRESEAL® PLASTERING**
- 4 Protective, transparent coating: **MAXURETHANE® POOL**





**MINERAL COATING**

For this system, the process described above will be repeated, until the application of the **CONCRESEAL® PLASTERING** high strength, decorative mineral coating.

**COLOURED PROTECTIVE AND DECORATIVE COATING**

**Coloured finish with MAXURETHANE® 2C**

Before applying of coloured finishing, apply **MAXPRIMER® PUR** as priming. **MAXPRIMER® PUR** is a transparent, one-component, solvent-based silane primer that once applied reacts and provides chemical anchors between substrate and subsequent coatings, working as chemical bonding agent.

**MAXURETHANE® 2C** is a two-component, coloured, solvent-based aliphatic polyurethane coating with matt or glossy appearance and suitable for protection and decorative finishing of swimming pools.



- 1 MAXSEAL® FLEX, 1<sup>st</sup> coat
- 2 MAXSEAL® FLEX, 2<sup>nd</sup> coat
- 3 Mineral coating: CONCRESEAL® PLASTERING
- 4 Protective, coloured coating: MAXURETHANE® 2C

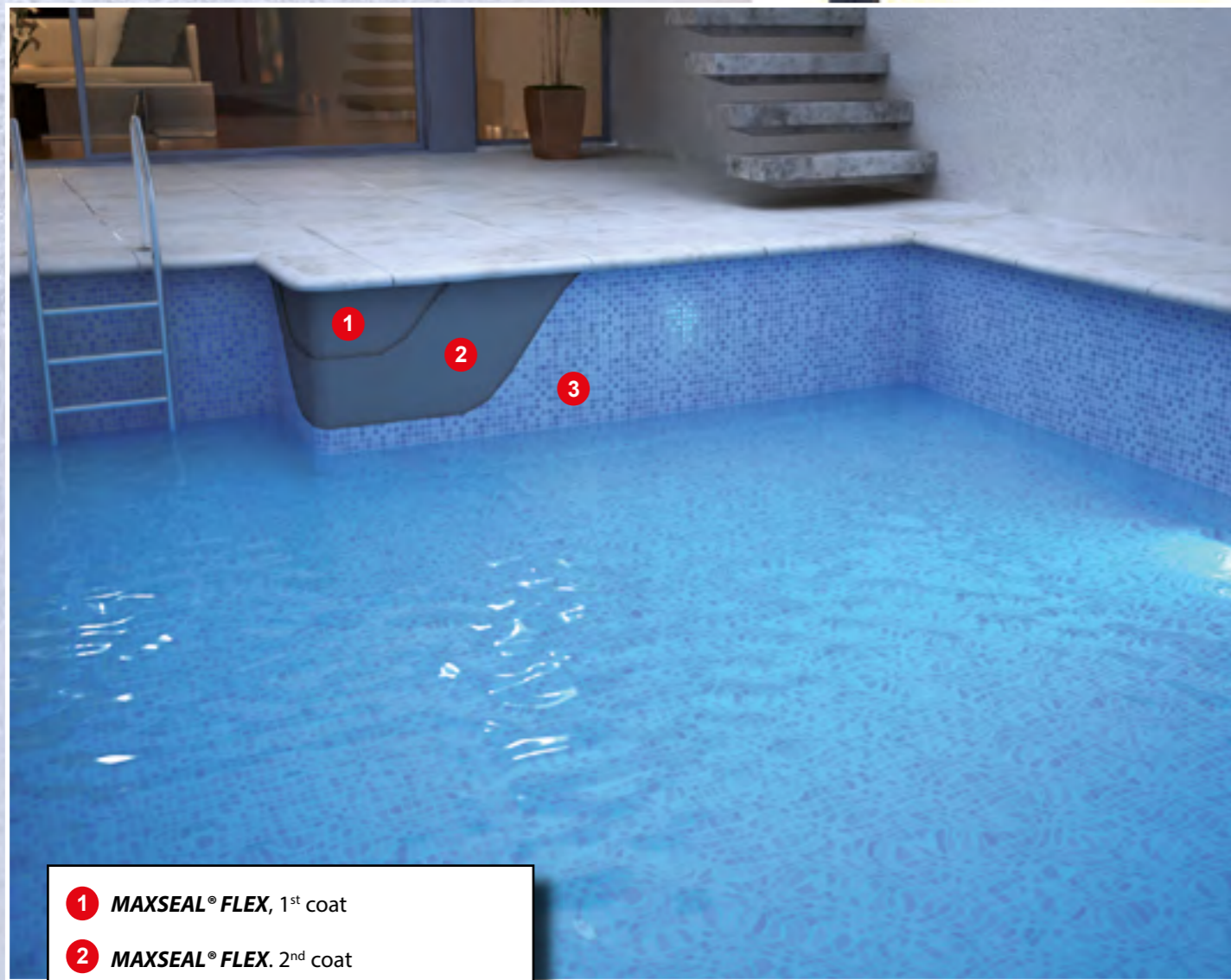




## CERAMIC TILE FINISH

For finishing with tiles in swimming pool, the use of **MAXKOLA® FLEX** flexible tiling mortar of high performance is recommended. Thus, a full flexible system compatible with the previous **MAXSEAL® FLEX** waterproofing is achieved.

For grouting the gap between tiles, **MAXJOINT® FLEX POOL** is used. This is a flexible grouting mortar with high microbiological resistance against algae and fungi, preventing the proliferation of mildew on the grout surface.



- 1 **MAXSEAL® FLEX**, 1<sup>st</sup> coat
- 2 **MAXSEAL® FLEX**, 2<sup>nd</sup> coat
- 3 Tile finish  
Tiling mortar: **MAXKOLA® FLEX**  
Grouting mortar: **MAXJOINT® FLEX POOL**



Tiling with  
**MAXKOLA® FLEX**



Grouting with  
**MAXJOINT® FLEX POOL**

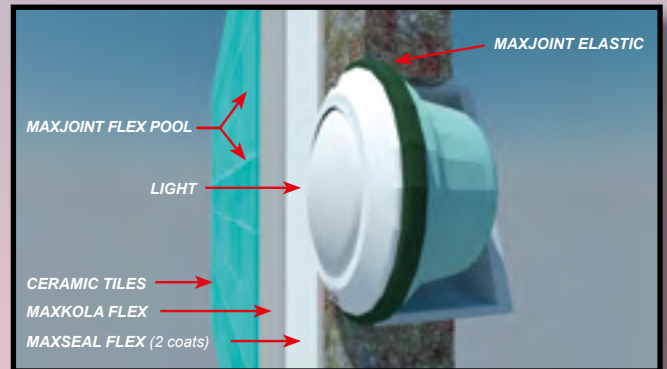
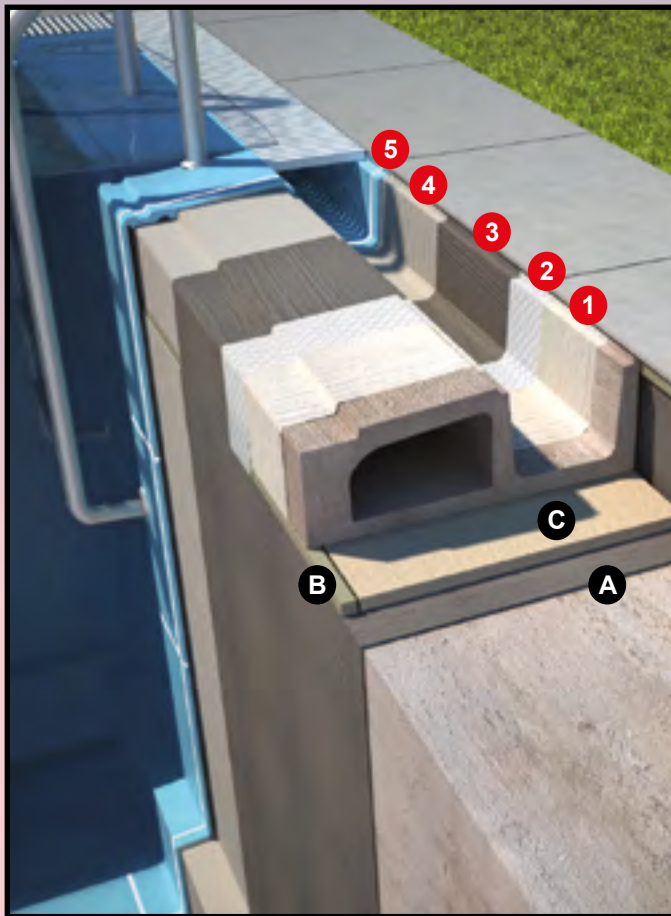
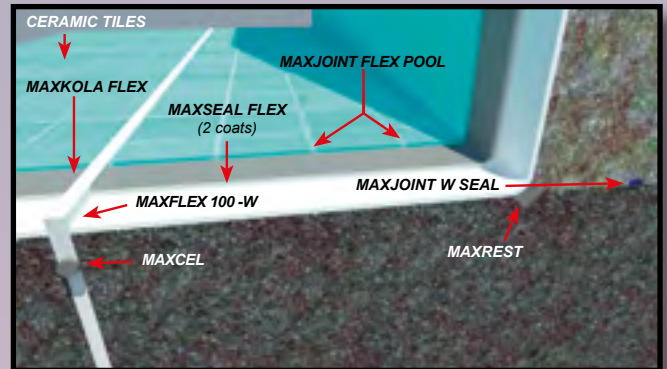
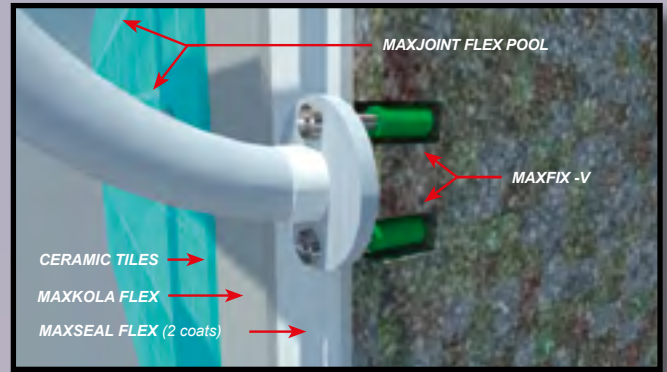


# DESIGN DETAILS

## Sealing of penetrating pipes, skimmers, lights and drains

All swimming pools are provided with water conduits passing through the walls and the slab. These out-standing points should be treated with special care because the highest percentage of leaks occurs through them.

For proper sealing of these special points, there are available some products that swell upon contact with water, such as **MAXJOINT® W SEAL** profiles, and **Leakmaster®** elastomeric sealant. Finally, these elements must be sealed using the non-shrink, fast setting repair mortars with excellent thixotropic properties such as **MAXREST®**, the hydraulic mortars with instantaneous setting and slightly expansive properties, such as **MAXPLUG®** or, preferably, the elastomeric cement-based mortar suitable for permanent immersion conditions such as **MAXJOINT® ELASTIC**.



- 1 **MAXSEAL® FLEX**, 1<sup>st</sup> coat
- 2 **MALLA DRIZORO® MESH 58**, Glass-fiber mesh
- 3 **MAXSEAL® FLEX**, 2<sup>nd</sup> coat
- 4 **MAXKOLA® FLEX**, tiling mortar
- 5 **MAXJOINT® FLEX POOL**, grouting mortar

- A** **MAXSEAL® FLEX**, 2 coats
- B** **MAXJOINT® ELASTIC**
- C** **WATMAT® FIX**



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