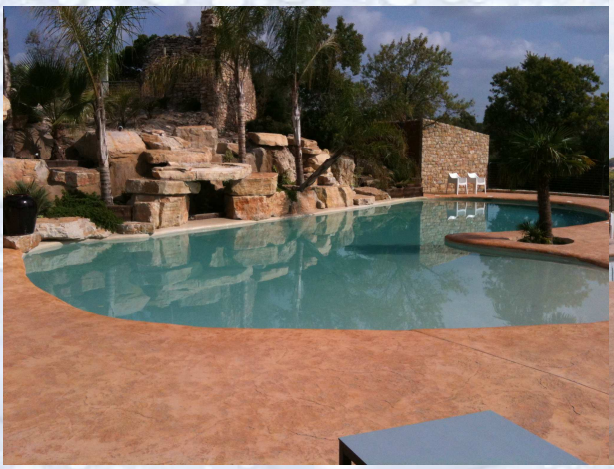
PROJECT

Project:	**Several projects**
Type:	**Swiming pools**
address:	-------
Realisation year:	-------
Surface:	-------

EXECUTION DESCRIPTION

Projects consist in the waterproofing of pools and water ponds. Here are examples with different finishes depending of user requirements; colored surfaces by aliphatic top-coating or completely silica sand saturated surfaces.



Swimming pool finished by TECNOTOP 2CP + silica sand

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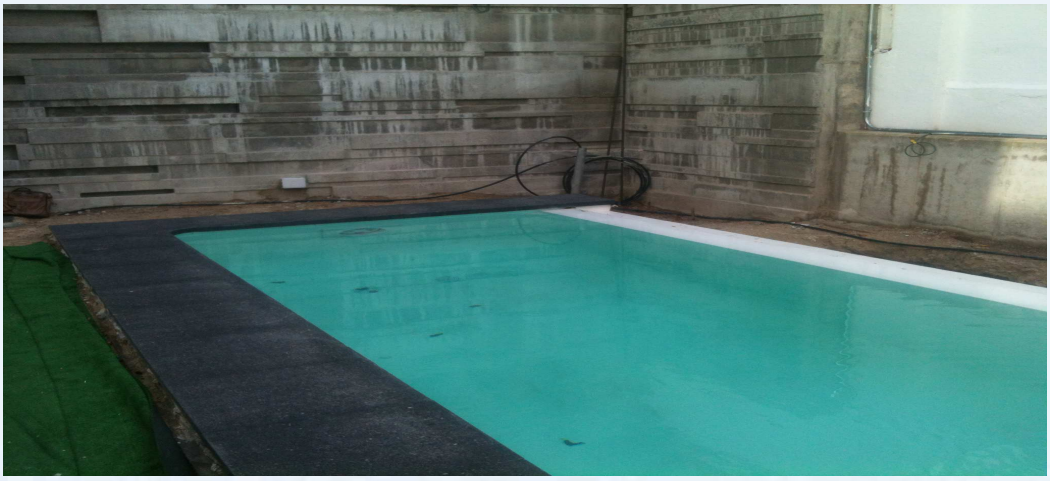

Swimming pool finished by TECNOTOP 2CP colored

Swimming pools finished by TECNOTOP 2CP

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Water pond

During application process

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APPLICATION PROCEDURE

The procedures in each application can vary depending on the final finish, but this will be the more common process:

First step: support preparation

Milling of the surface: surfacing of the concrete slab, to obtain a high adhesion of the system and reducing at zero the accumulation of air and therefore the appearance of bubbles or craters in the surface once the membrane is applied.

General Cleaning: removing with vacuum of dust, dirt and other material generated during earlier work and that may prevent optimal adhesion to the substrate.

Second step: singular points

They are elements as dilatation joints, encounters with walls, drains or other specific and singular points of the structure and surfaces. They require focused work to ensure proper system requirements. In this case, the work was done in the following points:

Realization of half-cylinder mortar: in this application, it was important to ensure continuity of the waterproofing **DESMOPOL** system in all encounters of the zones with vertical walls, and get good support for vertical membrane. Thus, a perfect continuity is ensured on the sharp points, which in the long term because of possible movements of the structure, which can damage the membrane. This work was done on the intersections with the walls and encounters. In this way the membrane **desmopol** requires no assembly or reinforcement extra systems.

Preparation of existing joints: joints on existing slabs and perimeter walls were prepared using **Tecnoband 100** also **Desmoseal Masilla PU** elastic sealant (mastic), to achieve a perfect flexibility and prevent breakage due during possible excessive movement of the concrete structure..

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Third step: DESMOPOL system application

The used system **DESMOPOL** was applied using the different elements as follows :

.- **PRIMER PU-1050**: is a bi-components polyurethane ,was applied by roller on hole superficies, it improves adhesion on existing support also eliminate bubbles formation posteriorly .

.- **DESMOPOL membrane**: is a mono-component polyurethane liquid ,is a completely adhered continues membrane ,adaptable on all forms ; was applied manually by roller on primer layer until getting the desired thickness required on ETA 10/0121.

.- **TECNOTOP 2CP**: is an aliphatic bi-component polyurethane varnish , it is used for desmopol membrane protection ,against chemicals coming from cleaning products , water treatment products and UV radiation. The varnish could be applied by roller or spray equipment ,

This varnish layer is also a support that will receive posteriorly the silica sand for finish application.

.- **Silica sand**:

In order to obtain a sand saturated surface as beach-effect finishing , the silica is applied on the polyurethane varnish layer before that is completely dry.

- **TECNOTOP 2CP**: is an aliphatic bi-component polyurethane varnish, it is used for desmopol membrane protection, against chemicals coming from cleaning products, water treatment products and UV radiation. The varnish could be applied by roller or spray equipment as airless group.

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APPLICATION's ADVANTAGES

The favorable constraints and points that result in the prescription of applying **DESMOPOL** polyurethane membrane system for waterproofing are as follows.

. - Optimum waterproofing in encounters with contours, forming a continuous protection fully adhered.

.-The fast execution of desmopol systems when is compared with other laminated systems.

. - Complete continuity of the waterproofing desmopol system in all aspects of the morphology of the implementation, taking into account the existing construction details such as encounters with the contour walls and interior elements.

. - In the same way, their classification of desmopol system for the application on roofs with classification S1-S4, that is, roofs or walls with zero slope inclination as is reflected in the ETA 10/0121, membrane make Desmopol suitable for use in tanks and pools.

.- The option to have a design sand finishing and at the same time an anti-slippery surface .

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