





# Sorgiva

Sorgiva pools, both public and private, have been built in several places around the world, in a variety of settings. Every single pool is personalised, different from all the others, because it was created exclusively for you. Observe in these photos how the latest technology can be combined with an assortment of natural materials in a selection of different surroundings... from the garden, to the rocks, to timber decks and open grassy spaces... The only limit is your imagination! We invite you to stimulate your imagination with our creations... Your pool will be unique: tailor-made for you!



Being in a swimming pool is a true moment of pleasure and relaxation. Usually designed and used as a furniture within the garden. Although studied in such a way as to make it an integral part of our external space, it is always an artifact that has nothing to do with the natural surroundings. And it is precisely for this reason that we want to offer you our swimming pools. They are real, well integrated with the environment. Made with natural materials like quartz, pebbles, rocks, stones, with respect to the surrounding natural landscape.





The construction system is the same as the one used for the reserves of water for irrigation and agriculture: excavation with soft slopes that do not affect the geological stability of the soil; waterproofing made from a sheet of EPDM certificate, removable; natural stones blocked by coating with resins which, once hardened, are inert. What characterizes these bathing lakes is the total absence of concrete or other materials which may be harmful to the environment. They respond fully to both the environment and the harmony of the same.





The headquarters of these bathing lakes can be shaped as desired, creating sessions, zones shallower, giving the feeling of being like a real beach. The shape of the base of these pools also helps to forfeit the heat naturally allowing a longer time of use.



# The various components, starting from the first layer at the bottom



2 Protective fabric



3 Modeling of the excavation



5 Coating layer crude



6 Intermediate structural network



4 Pebbles background



7 Topcoat

Bio natural pool design technology is a combination of natural products, wisely integrated with the best waterproofing technology and high-performance binders for structural consolidation. This technology was born in the search for a product that offered uniqueness, structural solidity and at the same time with a great respect for the environment. The aesthetic aspect is only one of the values of the Bio natural pool design technology.



It also offers the possibility to realize pools that encourage not only swimming but a total live ability, thanks to the ease in which beaches, underwater seating, swimming areas and much more can be shaped and modeled, optimizing the internal furnishing of the pool like any other environment in the home.

Bio natural pool design technology replaces the heavy and invasive structures of reinforced concrete with a structure composed of natural granulated stone combined with high performance, technologically advanced resins and other materials for structural strength. Thanks to its non-invasive characteristics, Bio natural design pools contribute to the safeguarding of our precious environment.





Seamless integration  
with the landscape,  
becoming one with  
nature

Uniqueness of form,  
having the ability to  
customize your own  
pool.



Respect for the  
environment in terms  
of materials used



# Phases of construction

## Phase 1

Implementation of the excavation of the swimming pond, the various depths of the beaches, sessions submerged. The excavation is: THE SAME POND. You do not need to create an excavation larger as for traditional pools with relative carryover of the soil.



Sorgiva pools technology is an example of excellence in Italian-made products on the world market. The building procedure behind this type pools involves several steps



## Phase 2

Placing of the pipes, vents and everything else needed for a correct operation of the plant is laid in a protective sheet geotextile material to protect the sheath of EPDM from damage due to soil.



## Phase 3

Once you have placed the cloth of protective geotextile material, the canvas is stretched over EPDM waterproofing in which, thanks to its elasticity, several sessions or beaches are made with flanged vents and skimmers recirculation system.





## Phase 4

On the cloth a layer of waterproofing rough, composed of pebbles grain size 4-10 mm., mixed with non-toxic resins are hand-laid across the surface of the swimming pool



## Phase 6

At this point over the entire surface, another layer of granulated pietranaturale linked from non-toxic resins is laid by hand. It is sanded lightly and for finishing a final coat of non-toxic resin is applied



## Phase 5

Above the crude layer a network for the consolidation of the finishing layer is laid





The result is a completely personalised pool, unique in form and elegance, with minimal environmental impact, not only in the construction phase but also during use, thanks to filtering and disinfection methods tuned to minimise pollution (Magpota-Pool MP). Another strong point greatly appreciated by Sorgiva clients is connected to the seasonal aspect: thanks to the patented bio natural design structural technology, our pools accumulate heat: the particular conformation of the pool results in a reduction of the cubic water volume in proportion to the surface area, heating the water faster in the winter and cooling faster in the summer



In addition, the stone finish of the pool absorbs heat and transfers it to the water, heating it naturally and considerably cutting down on maintenance costs. When cold weather becomes pungent, traditional pools are unused or covered with anti-aesthetic materials: Sorgiva pools take on the attributes of natural lakes, following seasonal changes in the garden or surrounding environment. For these and many other reasons, This innovative pools technology is more and more appreciated, not only by private clients but also by boutique and large hotels, local councils, larger public reception facilities, golf courses and residential developments. Sorgiva – a revolutionary patent that has changed the very concept of pools down to its foundation..





**Viscoelastic properties:**  
The EPDM eight elongation does not have a yield point, while materials like thermoplastic become thinner and break even at a tensile force. The EPDM stretches up to 150% and can be stretched in all directions at once (response multiaxial) is not subject to breakage due to tension. The material can be deformed to the limit and always returns to its original size and shape, fundamental characteristic to follow the movements of the substrate.



### Certification of waterproofing:

EPDM is a synthetic polymer that has more than 40 years has had a continuous increase in use in the automotive industry and civil engineering. It is an elastomer obtained from Copolymerization of Ethylene, Propylene and Diene Monomer, which is vulcanized.

The long rubber molecules are cross-linked through chemical bonds, forming aelastic product, chemically stable, with an unbeatable resistance to UV rays, ozone, to changes in temperature, chemicals and aging.



### Interest in the environment:

The waterproofing EPDM is chemically stable, non-polluting additives or heavy metals, do not release harmful substances and, in the case of the geomembranes, allows the life fish fauna and flora. The old installations EPDM can be burned to produce energy (do not produce dioxins), landfilled or recycled to produce new EPDM.

EPDM is indicated by Greenpeace as alternative to plastic and PVC.

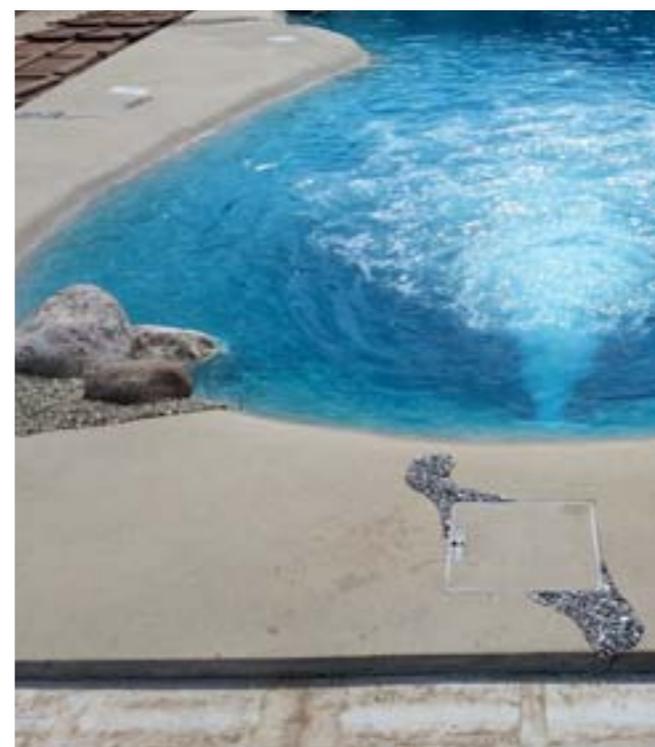


**Resistance:** Resistant to puncturing and tension. Pressure and movement of the substrate leaving unchanged the EPDM. It contains no plasticizers and additives that can migrate over time. The weight remains unchanged.



### Filteration:

The filtration system, designed to ensure a transparent water and especially perfectly sterilized treatments with non-polluting, is mounted in equipment rooms fiberglass underground thus avoiding reinforced concrete construction.



### Unbeatable flexibility:

The EPDM remains flexible even in extreme temperatures, allowing installation in any time of year and in different weather conditions.

### It is chemically stable:

There is no risk of migration or change of ownership after contact with other materials



Ecoteco Pools  
REVE AREA,  
Auroville - 605 101,  
Tamil Nadu, INDIA.

E-mail. [info@ecotecopools.com](mailto:info@ecotecopools.com)  
[www.naturalgroup.it](http://www.naturalgroup.it)  
[www.ecotecopools.com](http://www.ecotecopools.com)

