

- **Pool products** made of natural and artificial stones **are not installed in the same way** as marbles for floors.
- It is strongly recommended to look for **workshops with experience in the installation** of pool products made of natural stones or artificial marble.
- Regarding construction materials, cement mortar, adhesives and joints, please ask the project engineer to indicate the appropriate product, which is available in your area, according to the following instructions.
- Great attention should be paid to the **cement mortar substrate** to be made under pool specifications, which should have **great cohesion and structural stability**.
- It is recommended for the **cement mortar substrate**, the **use of materials that strengthen** the mechanical strength of the cement mortar (e.g. polypropylene fibers and resin), ask for the advice of the supervising engineer of the project.
- **Avoid high compartmentation cement mortar** (coarse-grained materials).
- Natural or artificial rocks outdoors, due to strong weather conditions and sunlight, must be glued with high quality **elastic** adhesives.
- For **joints, high quality putties** able to withstand linear rock expansions, sunlight and extreme weather conditions should be used. Attention!! In case you use epoxy putties, apply them in the appropriate way so as not to stain the rocks, as they cannot be cleaned afterwards.
- Special attention should be paid to the **width and design of the joints**, so that they can receive the **linear expansions** of the marbles, depending on the **geographical area** and the **dimensions of the pool** and the surface of the rocks.
- Putties for joints should be applied to well-cleaned rocks and **in the entire depth** of the joint.
- For the preparation of both the putty and the adhesive, **follow the manufacturer's instructions** (especially in relation to the ratio of the materials and the range of their application temperature).
- We emphasize that the installation of **dark-colored marbles** requires more attention to environmental conditions, especially during the summer months. Due to the **high sunlight**, dark- colored stones contract and expand to a greater extent than light- colored stones. This should be taken into account by the project manager **throughout the installation** of both the stones and the joints. It is recommended to protect the rocks from sunlight (e.g. to be covered) during installation and before grouting and until the installation of marbles and/or stones is completed.
- Frequent monitoring of the concentrations of the pool chemicals, so that the joints and the stones do not corrode.
- Waterproof treatment is highly recommended for all natural stones.
- Adhesive is recommended for the installation of the products since mud is likely to cause various stains including salts stains.
- In order to prevent marble pool products' erosion:
 - Pool's water should be kept within a pH level of 7.2 to 7.6 throughout the day
 - The level of the pool water's total alkalinity should be between 80ppm and 140 ppm
 - The chlorine levels should be lower than 5ppm
 - Before using chemical products in the pool channels, make sure to remove the drain grates first
 - The hardness of the water should be between 200 to 250 ppm .