

OLYMPIC SIZED SWIMMING POOL at SDM College, Ujire

We supplied water-body installation system like plasters, waterproofing system, tile adhesive and epoxy grouts for recently inaugurated 50m X 25m, 10 lane, Olympic sized Swimming pool at SDM College, Ujire



COMPLETE WATER BODY INSTALLATION SYSTEM FROM ACEBOND

Construction of swimming pool or fountain is among the more challenging projects for any contractor. Creating a durable submerged installation takes extra planning and care to protect its integrity. If not properly set and maintained, the water feature may be damaged over time and its beauty ruined by cracks, leakage or loose tile. So a complete WATER BODY INSTALLATION should be applied before putting the swimming pool in service

Before beginning of the Installation....

PLANNING

The first step to a successful submerged tile installation is reviewing the plans and confirming that the proper approvals and engineering stamps have been obtained. There are a number of important issues to consider when planning and installing a water feature project like

- Is the surface prepared properly for the water body installation?
- Have movement joints been properly specified?
- Are the tiles selected properly?
- Will the selected tile backing materials inhibit the bond?
- Is the grout selected best in colour and to stand up to pool chemicals?
- Can the tile, mortar and grout stand up to freeze/thaw cycles?
- Are the water body installation products formulated and suggested for submerged installation?

SITE INSPECTION AND STRUCTURE (SHELL) INSTALLATION

Next, the contractor/installer should inspect the site where the water feature will be installed and make required arrangements including material and man power mobilization. Prepare structure as per the design given by structural engineer. Make sure all proper care has been taken while construction of main structure. Look for structural cracks and overall integrity of the shell, as well as exposed metal or rebar and the levelness of the bond beam. Shell can also be built with cement blocks. Make sure proper curing is given before going for next step.

SURFACE PREPARATION

Remove all curing compounds, release agents, debris, dirt and free standing water from the surface to be installed with waterproofing compound. Grind all high spots and fill all low areas with a quality cement-based compound like Acescreed Concentrated mixed with Acemix TBL. Make sure the surface is well leveled to receive further installation system



PRESENCE OF HOLES, HONEYCOMBING AND DAMAGED CONCRETE

Mostly in newly built swimming pools, holes will appear caused by molding or else; such holes must be cleaned. In the case of big holes or damaged concrete in old or new swimming pools, all damaged areas must be chiselled and cleaned. In some newly built swimming pools, honeycombing may be found occurred by concrete pouring or pumping. Honeycombing areas must be cleaned by removing all damaged concrete and existing laitance. All above concerned damaged areas should be damped with fresh water after cleaning and then filled the area with Acescreeed concentrated mixed with Acemix TBL. If any cracks are present, they can be treated the same way. Major cracks should be “V” grooved and then filled with Acefix Acrylic crack filler.

PRESSURE GROUTING

After surface preparation and plumbing is over, fill the swimming pool with water and check for leakages in structure. If leakages found, then mark the leaked area and empty out the water. Pressure grouting should be done on leaked points by expert pressure grouting team. Pressure grouting and bore packing can be done, wherever necessary, by using Aceproof FSG – Fast setting grout and Aceproof NSG – Non shrinkage grout. Refill the water; repeat the procedure to make sure no major water leakages in structure. Please consult our 24X7 customer care executive or nearest sales representatives about more information or installation guidelines

WATERPROOFING

After assuring that all the above steps have been maintained, the water tank is ready to receive the waterproofing coating. If waterproofing is installing, the interior surface of the water feature should receive a waterproofing membrane meeting ANSI A118.10. The waterproofing membrane must tie into all points of penetration including lights, pipes and niches.

Aceproof Marvel is fabric-free, ready-to-use liquid waterproofing membrane that has 400% elongation and can withstand normal structural movements effectively. It adheres to almost all type of surfaces like metal, copper, PVC, plastics, etc. It cures quickly in controlled environments and gets ready for protective plaster in 24 hours. (Lower temperatures and higher humidity can delay the curing and it may require up to three days to dry completely.) Once the waterproofing has fully cured, it should be flood tested to ensure that there are no leaks. Flood test duration depends on type of work. After flood testing, all the water must be removed and allowed to dry thoroughly (no standing water) before installing plaster and screed. Aceproof Marvel should not be left exposed to sunlight for extended periods of time, but must be covered with protective layer after completing the above steps. Follow all of the manufacturer’s directions for installation of waterproofing membrane.

PLASTERING

After waterproofing, the surface of the walls must be aligned in order to fix tiles and grouting therefore plastering work is to be done. Apply Aceplast Premium – a self curing dry mix plaster to a required thickness. If necessary, before plastering, apply a prime coat by using Acecoat – Latex bonding agent for better bonding between surface and plaster. For external surfaces and a better curing, keep spraying water twice a day for 3 days. In case more thickness is required to achieve the alignment, then scratch the finishing surface and apply another coat following the previous steps.

FLOORING SCREED

The concrete floor has to be aligned as well, by using floor screed, Acescreeed Concentrated mixed with required amount of aggregates. Mix 30 kg of Acescreeed concentrated with 100-150kg of aggregates and add approximately 5 litres of fresh water and pour the mixed product onto the floor and spread it with a steel trowel for a thickness up to 50 mm. Control joints in the existing substrate should be respected. For large areas, joints should be created every 25m . Avoid fast drying in case of hot temperature. Give proper curing as per manufacturer’s instruction

TILING

Wall and floor of the swimming pool should be ready to receive tiling. But note that, not all tiles are suitable for submerged applications. Rarely does the installer have a say in the selection of the tile, but the responsible party should be notified if the tile chosen is not suitable. Verify that the manufacturer recommends the selected tiles for use in submerged applications.

Tile that will be submerged should be set by an experienced installer that he is familiar with the demands of pools and water features. Proper material selection becomes more important than ever with the challenge of a submerged application. In certain areas, the tile assembly may also be subjected to thermal shock from freezing conditions. ACEBOND’s offers an ultimate product that is suitable for the installation of submerged tiles called ACEFIX 9Star. It is a highly polymer modified thin-set adhesive that can be recommended for glass mosaic and all type of tiles for underwater applications. Please refer manufacturer’s instruction for proper installation guidelines



GROUTING

After the fixation of tiles, all the area must be cleaned with fresh water and kept untouched for 24 hours in order to allow the tiling to be set.

There are many choices for grout to fill the joints between the tiles beyond the selection of colour. Be sure to select a grout type and colour that is suitable for submerged conditions. The colour of some pigments used in cement grout can be altered by the chemicals added to maintain clear water in a pool. Check with the grout manufacturer to make sure the particular grout colour selected is stable in treated pool water. ACEBOND recommends ACEGROUT Superfine series grout for high durability and colour stable for under water applications.

Epoxy grout is considered chemical resistant and should be safe in water features. However, all epoxy grouts are not UV stable and will yellow over time when exposed to ordinary sunlight. Most epoxy grouts should not be installed in exterior applications. But ACEBOND offers a product called ACEPOXY Epoxy grout – Exterior grade, a high performance, 100% solid, chemical, acid and stain resistance grout for exterior application which can be exposed to normal sunlight.

FILLING AND MAINTAINING THE WATER

Under ideal conditions, the pool or fountain can be filled with water after 14 days of allowing the completed tile assembly to cure.

Unlike a plaster pool that should be filled as fast as possible to eliminate a visible ring in the plaster, tiled pools and water features should be filled slowly. After allowing the mortar and grout to fully cure, water should be added slowly at a rate of two feet per 24 hour period. This will minimize the movement in the shell from the additional weight of the water and the risk of impact to the tile. It will also help prevent tiles from cracking or coming unbonded.

The job is not over when the pool or water feature is filled. It must be maintained regularly to assure its beauty and durability. We all like the feel of “soft” water on our skin. It is also a fact that there will be less scale on and around the water feature with soft water. However, soft water will also shorten the life of a tiled pool or fountain. As the soft water tries to reach equilibrium with its surroundings it will try to pull calcium from the grout, mortar and plaster (underlayment) of the water feature if it is installed with conventional system. This weakens all the cement components. So it's very important to install the water features with complete WATER BODY INSTALLATION SYSTEM like Plater (Aceplast-Premium), Screed (Acescreed-Concentrated), Waterproofing (Aceproof Marvel), Tile setting mortar (Acefix 9Star), Grouting (Acepoxy Epoxy grout), etc.

TESTIMONIALS



P.U Bopanna

Co-Partner

WATERPEPPER POOLS LLP.

The bond between us and Acebond is of 3 years. We have a very good experience using their products. Quality of the products is very good. Other than that the technical services provided by them is excellent. Products reach us on time and is neatly packed. We have used Acefix 9Star, Aceproof Excel and Acepoxy Epoxy grouts regularly from Acebond. One of our memorable project with association of Acebond is 50mtr X 25mtr, 10 lane swimming pool at SDM college, Ujire. We would like to thank for their immense support for in-time completion of our project and wish them all the best for their future endeavor.



P.U Bopanna

ACE COLUMN

BANK ACCOUNT

Imagine there is a bank, which credits your account each morning with ₹ 86,400, carries over no balance from day to day, allows you to keep no cash balance, and every evening cancels whatever part of the amount you had failed to use during the day. What would you do? Draw out every pence, of course!

Well, everyone has such a bank. Its name is Time.

Every morning, it credits you with 86,400 seconds. Every night it writes off, as lost, whatever of this you have failed to invest to good purpose. It carries over no balance. It allows no overdraft. Each day it opens a new account for you. Each night it burns the records of the day. If you fail to use the day's deposits, the loss is yours.

There is no going back. There is no drawing against the “tomorrow.”

Therefore, there is never not enough time or too much time. Time management is decided by us alone and nobody else. It is never the case of us not having enough time to do things, but the case of whether we want to do it.



EXHIBITION

Our stall at International Expo of Construction material - CONFAIR 2016 held at Coimbatore, TN



Feel free to give your views, feed back, ideas and opinions related to this field. You may be the next face in our news letter.

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Our Vision

We aspire to be a world class organisation with advanced products, processes, unmatched performance and quality. We are committed to delight our stakeholders with unlimited solutions at our single hub-"ACECRETE"

Our Mission

To innovate continuously and provide unique solutions in construction technology.

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- Admixtures • Waterproofing • Sealers •
- Industrial Cleaners • Coatings • Self Leveling •

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