

**Installation of Laminam slabs,
Laminam 3 + and Laminam 5, in a pool
having the walls realized in concrete.
(base preparation and application of Laminam slabs
with Mapei products)**

It is possible cover with Laminam slabs (3+ and 5) the surfaces of a swimming pool.

If this surfaces are in concrete material should be applied the following information. The solutions, the choice of materials and the responsibility of application are of designer and construction manager:

1. Waiting for complete maturation of concrete if it is new.
2. Fill the pool of concrete with water to allow for the settling of the structure and foundation pile and to intercept possible fissure. The pool must be full for one week at least.
3. Elimination of superficial bleeding of concrete with carefully brushing of surface to remove all materials that can affect glue application.
4. Application with roll of **Mapei Ecoprim grip Primer**, promoter of universal adhesion before the application of plaster or screed.
5. Levelling of all plaster surfaces (walls and floors) by means of application of **Mapei Planitop Fast 330** reinforced cement quick setting mortar for thicknesses up to 20 mm. If the thickness is greater of 20 mm the use of screed **Mapei Top cem pronto C/60** with bonding slurry is recommended.
6. After the maturing processes make the waterproofing of the vertical and horizontal angle by means of glued application of **Mapei Mapeband** rubberized bands with alkali resistant felt. Glued application must be made with **Mapei Adesilex PG4** two-component epoxy adhesive thixotropic modified rheology.
7. Application of **Mapei Mapelastix** two-component elastic waterproofing cement mortar in two time with spatula on all the faces of the structure. It is recommended to install **Mapei Mapenet 150**, a fibreglass alkali resistant net in the middle of cement mortar.
8. When the maturing process is finished, after five days at least, must be do the glued application of Laminam slabs 3+. For this type of application the maximum size of Laminam surfaces is 1000x1000 mm on the pool bed and 1000x1500 mm on the side. In this case it is important to use **Mapei Ultralite S2 Quick** a quick-setting glue applied with the back-buttering technique. For this type of application it is not possible to use Laminam series FILO and OXIDE.
9. Grouting of the soft joints with two component epoxy resin. Soft joint dimensions are minimum 5 mm.
10. Provide for every 9 m² and in all corners dilatation joints. Seal all dilatation joints with **Mapei Mapesil AC** silicon material after the application of **Mapei Primer FD**.
11. To realize of coating of border of pool we recommend the use of ceramic materials that are in B category if the border is flat and C category if the border is not flat as slip resistance according to DIN 51097 (eg. LAMINAM TREDI) .

It is very important to request a survey of a technician of Mapei to verify the feasibility of work and the suitability of recommended materials.