

## **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)**

It is possible cover with Laminam 3+ slabs the surfaces of 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, three months at least.
2. Fill the pool of concrete with water to allow for the settling of the structure. The pool must be full for one week at least. Possible fissures must be open, dusted and welded with epoxy resin.
3. Elimination of superficial bleeding of concrete with careful brushing of surface to remove all materials that can affect glue application.
4. Levelling of all plaster surfaces (walls and floors) by means of application of reinforced cement quick setting mortar for thicknesses up to 20 mm. If the thickness is greater of 20 mm the use of screed with bonding slurry is recommended. Application with roll of Primer, promoter of universal adhesion before the application of plaster or screed if this operation is requested by manufacturer of screed.
5. After the maturing processes of cement quick setting mortar make the waterproofing of all structure by means of application of two-component elastic waterproofing cement mortar in two time with spatula on all the faces of the structure. It is recommended to install a fibreglass alkali resistant net in the middle of cement mortar. The thickness of this waterproofing cement mortar must be greater than 3 mm. Waterproofing is important on vertical and horizontal angle by means of glued application of rubberized bands with alkali resistant felt. Glued application must be made with two-component epoxy adhesive thixotropic modified rheology.
6. 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 a quick-setting glue, applied with the back-buttering technique. Choose the glue in accordance with the manufacturer. For this type of application it is not possible to use Laminam series FILO and OXIDE.
7. Grouting of the soft joints with two component epoxy resin. Minimum dimensions of soft joints are 5/7 mm.
8. Provide for every 9 m<sup>2</sup> and in all corners dilatation joints. Seal all dilatation joints with silicon material after the application of Primer.
9. 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 suitability and compatibility of materials with pool use to manufacturers companies.