

AquaLINE® INSTALLATION IN POTABLE WATER
FOR USE WITH:
APPROVED POTABLE WATER EPOXY RESINS

INTRODUCTION

Use this installation technique on concrete walls and slabs for structures that contain potable water. All material used in this installation must be certified for use with potable water. The description of the method of installation is for concrete substrates. Particular attention must be paid to the application on concrete, as the quality of a concrete substrate can vary significantly. The installation procedure is described as follows:

STEP 1: SURFACE PREPARATION

All surfaces must be dry and clean of debris, prior to application. The typical application is on a concrete surface. If the application is on new concrete, the following criteria define an acceptable condition of the concrete surface, concrete age 4 - 6 weeks, maximum allowable moisture content 3% and the concrete must be free of all scaling and bleed. Existing concrete surfaces must be free of all oils and debris. An acceptable surface is one that has been sand blasted. If the existing concrete surface has been wet and saturated with water, an epoxy primer must be used to ensure a good adhesion bond.

STEP 2: APPLICATION

Identify the start installation location from the plan accompanying the roll of AquaLINE waterproof expansion joint material. Roll out the AquaLINE and allow it to relax prior to application. Make sure that the building expansion joint is clean and free of debris and has been packed with compressible batt insulation or a backer rod installed. Align the center line of the expansion joint gap or gap with the centre line of the AquaLINE waterproof expansion joint material, and verify the AquaLINE conformance to site details prior to the epoxy application.

STEP 3: INSTALLATION WITH AN AquaLINE COMPATIBLE EPOXY RESIN

AquaLINE is installed on a concrete substrate using an epoxy resin. The epoxy resin must meet all local health and contamination requirements. The epoxy resin must meet current FDA and NSF approvals for potable water, consult the labeling on the epoxy resin for the latest approval information and material preparation guidelines.

The AquaLINE material is laid down in a prepared 1/8" [3 mm] thick bed of epoxy. The underside surface of the AquaLINE is **NOT** coated. The AquaLINE is pressed firmly into the epoxy, to wholly come in contact with the epoxy bed. A smooth tool is recommended to press the AquaLINE into the epoxy resin bed. Once the underside surface of the AquaLINE has been laid into the epoxy resin bed, the top side surface is coated. A uniform layer 1/16" [2 mm] thick is applied to the top side surface of the AquaLINE, using a feathering tool such as a notched trowel. All the exposed AquaLINE material must be covered. The epoxy must encapsulate wholly a minimum of 1 3/4" [40 mm] of the AquaLINE edging and extend a minimum of 3/4" [20 mm] onto the substrate. A typical quantity of epoxy resin used for a normal AquaLINE application is 8.6 oz./ft. [800g/m]. Once installed the epoxy resin must be cured for at least 72 hours before submerging underwater. A flood test is also recommended prior to final use.

TAKE NOTE...

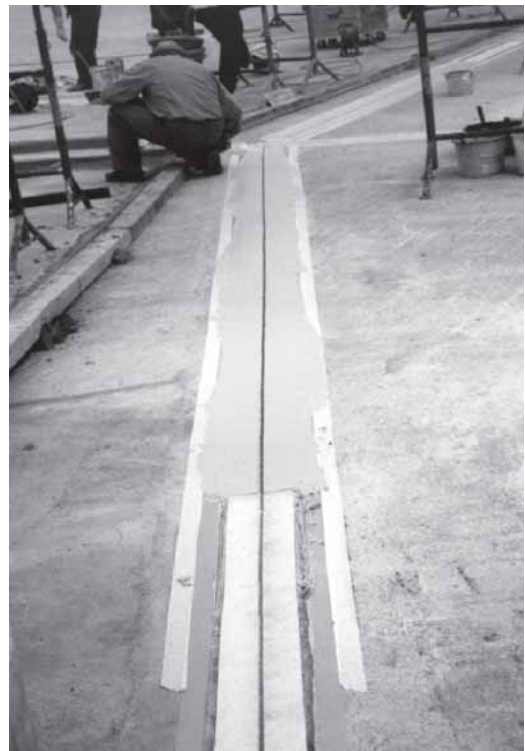
POINTS TO NOTE WHEN INSTALLING AquaLINE IN EPOXY RESIN

1. Ensure that the AquaLINE is fully encapsulated within the epoxy matrix.
2. Always follow the epoxy manufacturer's recommendations.
3. Do not allow the epoxy on either surface to dry, always apply epoxy onto a wet epoxy layer.

AquaLINE® ENCAPSULATION INSTALLATION FOR A POTABLE WATER TANK



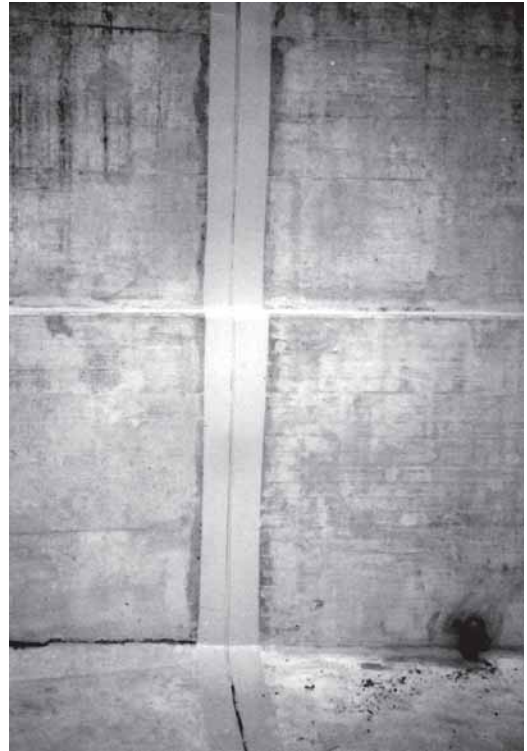
◀ *The joint is primed and a coat of compatible epoxy is applied.*



▶ *The AquaLINE is laid into the bed of epoxy, the top surface is covered with epoxy.*



◀ The AquaLINE roll is vulcanized on site to produce a seamless monolithic joint.



▶ A picture of the AquaLINE installation on a vertical wall with a seamless transition from vertical to horizontal.



◀ The completed AquaLINE expansion joint.