




ITL Aqualiner Installation Method for

Earthen Channels

1.	PURPOSE	To outline the method for installation of ITL Aqualiner to existing earthen channels
2.	SCOPE	<p>For all lining of in situ earthen channels used within water or waste containment and or distribution structures using the ITL Aqualiner.</p> <p>If unsure of product and installation please contact ITL prior to installation</p>
3.	PERSONAL PROTECTIVE EQUIPMENT REQUIRED	
4.	SPECIFIC WORK EQUIPMENT REQUIRED	<ol style="list-style-type: none"> 1. Concrete cleaning and surface abrasive equipment for surface preparation 2. Filler: ITL Polyfill powder and mix/distribution equipment (from concrete channel instructions) 3. Coating: ITL Aquaseal powder and mix/distribution equipment 4. Water 5. Bucket, mixing implement, brush/roller/trowel
5.	SAFETY INFORMATION	<p>All components are non-hazardous, however the following key safety precautions should be taken:</p> <ul style="list-style-type: none"> • ITL Aquaseal powder contains cement – use P2 mask and glasses/goggles to avoid inhalation and/or contact with mucous membranes • Wear gloves for handling of ITL Aquaseal, wash with water if contact made with skin
6.	RECOMMENDED MAINTENANCE	<ul style="list-style-type: none"> • The ITL Aqualiner system should be included in a regular visual inspection program to ensure liner integrity • For removal of silt and related material, use light rubber tracked vehicles with silt vacuum systems

<p>7.</p>	<p>PROCEDURE FOR INSTALLATION</p>	<p>Prepare section for works</p> <ul style="list-style-type: none"> • Isolate water flow to channel basin or aqueduct section with sandbags etc., • Existing channel to be reinstated to required channel profile as specified by civil engineer • Dig anchor channels for liner support <p>Installation of ITL Aqualiner Roll lengths to be determined from drawings to ensure most efficient panel placement For corners the ITL Aqualiner to be cut in consideration of the channel arcs Panels joint stripped to be joined with adhesive Panels join strip to be 150mm, lap joins to be coated with ITL Aquaseal Panels to be placed on top of retaining wall in the anchor trench, contractor to secure using traditional fill compactions ITL Aqualiner to be batten fixed to existing concrete retaining wall and headwork structures.</p> <p>Application of ITL Aquaseal</p> <ul style="list-style-type: none"> • mixed ITL Aquaseal and spray applied as specified • apply ITL Aquaseal over the entire surface area of the aqueduct to a nominal depth of 2 mm • do not apply to a depth greater than 3 to 4 mm to avoid shrink cracking • at the top of either side of the aqueduct, headwall and ancillary structures apply masking tape to have a uniform line between existing concrete material and ITL Aquaseal coated section • if the nominated area is not integrated to a headwall structure, key in a leading-edge to the aqueduct so as to prevent any likelihood of water flow under the ITL Aquaseal coated surface • allow 3 to 4 days to cure in normal weather prior to opening to intended use • The coated area should be visually inspected to ensure full ITL Aquaseal coverage over the section.
<p>8.</p>	<p>ATTACHED DOCUMENTS (as a minimum)</p>	<ul style="list-style-type: none"> • ITL Aqualiner Specification • MSDS for ITL Aquaseal