



ITL Aquaseal Remediation Method for existing Concrete Structures

1.	PURPOSE	To outline the method for remediation of concrete structures to provide an impermeable barrier using the ITL Aquaseal System .
2.	SCOPE	For all lining of in situ concrete structures used within water or waste containment and or distribution structures using the ITL Aquaseal System . If unsure of product and installation please contact ITL prior to remediation of concrete.
3.	PERSONAL PROTECTIVE EQUIPMENT REQUIRED	
5.	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 3. Coating: ITL Aquaseal powder and mix/distribution equipment 4. Water 5. Bucket, mixing implement, brush/roller/trowel
4.	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 Polyfill and 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 wet ITL Polyfill and or ITL Aquaseal, wash with water if contact made
5.	RECOMMENDED MAINTENANCE	<ul style="list-style-type: none"> • The ITL Aquaseal 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>6.</p>	<p>PROCEDURE FOR REMEDIATION</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., • the area is to be cleaned by high-pressure water and or abrasive cleaning equipment, care being taken not to damage the existing substrate; • use excavator to remove weed and silt material • use vacuum pump to extract remaining weed and silt material and dispose • Make sure area around the nominated remediation section is dry, clean and free of loose material; <p>Repair structural deficiencies</p> <ul style="list-style-type: none"> • check concrete structure for structural integrity • apply where required cement mortar were cracks and/or cavities are greater than 25 mm diameter or depth • mix and pump cement mortar to affected areas • smooth out, brush and make good the surface • remove all loose material from within aqueduct structure • follow manufacturers recommendations before application of ITL Polyfill <p>Application of ITL Polyfill</p> <ul style="list-style-type: none"> • mix ITL Polyfill and spray apply as specified • apply ITL Polyfill to any cracks and/or cavities less than 25 mm diameter or depth • do not allow slumping • ensure application is smooth and consistent • allow 24 hours prior to application of ITL Aquaseal <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, 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 5 to 7 days to cure in normal weather prior to opening to intended use
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		<ul style="list-style-type: none">• The coated area should be visually inspected to ensure full ITL Aquaseal coverage over the section.
7.	ATTACHED DOCUMENTS (as a minimum)	<ul style="list-style-type: none">• ITL Aquaseal Coating Specification• MSDS for ITL Polyfill• MSDS for ITL Aqualiner