

VOLCLAY

CETCO VOLCLAY
WATERPROOFING SOLUTIONS

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SWELLTITE® - OUR ADVANCED WATERPROOFING SYSTEM

SWELLTITE® waterproofing membrane is a proven solution for below-grade vertical and horizontal structural foundation surfaces. SWELLTITE® provides waterproofing protection for structural elements such as:

- Cut-and-cover tunnels
- Back-filled walls
- CMU foundation walls
- Earth-covered structures.

Whether a structure is under continuous or intermittent hydrostatic pressure, SWELLTITE® is a proven and reliable barrier against water. Bonding an active bentonite layer between tough, puncture-resistant geomembrane layers, SWELLTITE® combines both passive and active barriers to substantially reduce the possibility for leaks.

Its traditional passive barrier blocks water, while its core's active volcanic bentonite compound absorbs up to 15x its volume in water, expanding

to seal cracks using the very pressure of the water itself to fill and block any gaps caused by ground settlement, concrete shrinkage, or seismic action.

EASY INSTALLATION

Featuring exceptional flexibility for maximum conformability when fitting to a structure, SWELLTITE® can be installed directly to green concrete and placed as soon as forms are removed—no need to wait for the concrete to cure. SWELLTITE® is ready for use and requires no set-up, saving you money in time and installation.

Whether for new construction or retrofit waterproofing projects, SWELLTITE® is easy to install, even in below 0°C temperatures. Simply remove the clear release film from the back of the geomembrane and then position SWELLTITE® over the prepared surface and seal and secure as required.



VOLTEX® – LEADING WATERPROOFING WORLDWIDE

VOLTEX® is a proven waterproofing membrane ideal for vertical and horizontal foundation surfaces. VOLTEX® incorporates the high-swelling and self-sealing properties of sodium bentonite combined with geotextile fibres to form a monolithic membrane to protect the structure from water ingress. VOLTEX® contains zero VOCs and can be installed in almost any weather condition.

VOLTEX® durable geomembrane provides waterproofing protection for any cast-in-place, below-grade concrete construction, such as:

- Structural Slabs
- Property Line Walls
- Backfilled Walls
- Shotcrete

Once covered with structural concrete or backfilled and in contact with water, VOLTEX® hydrates, forming a monolithic waterproofing membrane. Unconfined bentonite can swell up to 15 times its dry volume.

VOLTEX® forms a strong mechanical bond to concrete when the geotextile fibres are encapsulated into the surface of poured-in-place concrete. The swelling action of VOLTEX® can self-seal small concrete cracks caused by ground settlement, concrete shrinkage, or seismic action.

EASY INSTALLATION

Installation of Voltex is fast and easy. Simply place into position and secure with mechanical fasteners. When concrete is poured against Voltex, a tenacious mechanical bond is created by the wet concrete solidifying around the geotextile fibres. Voltex can be installed in virtually any weather making it ideal for waterproofing under slab and at property line applications.

DURABLE AND CONTAMINANT RESISTANT

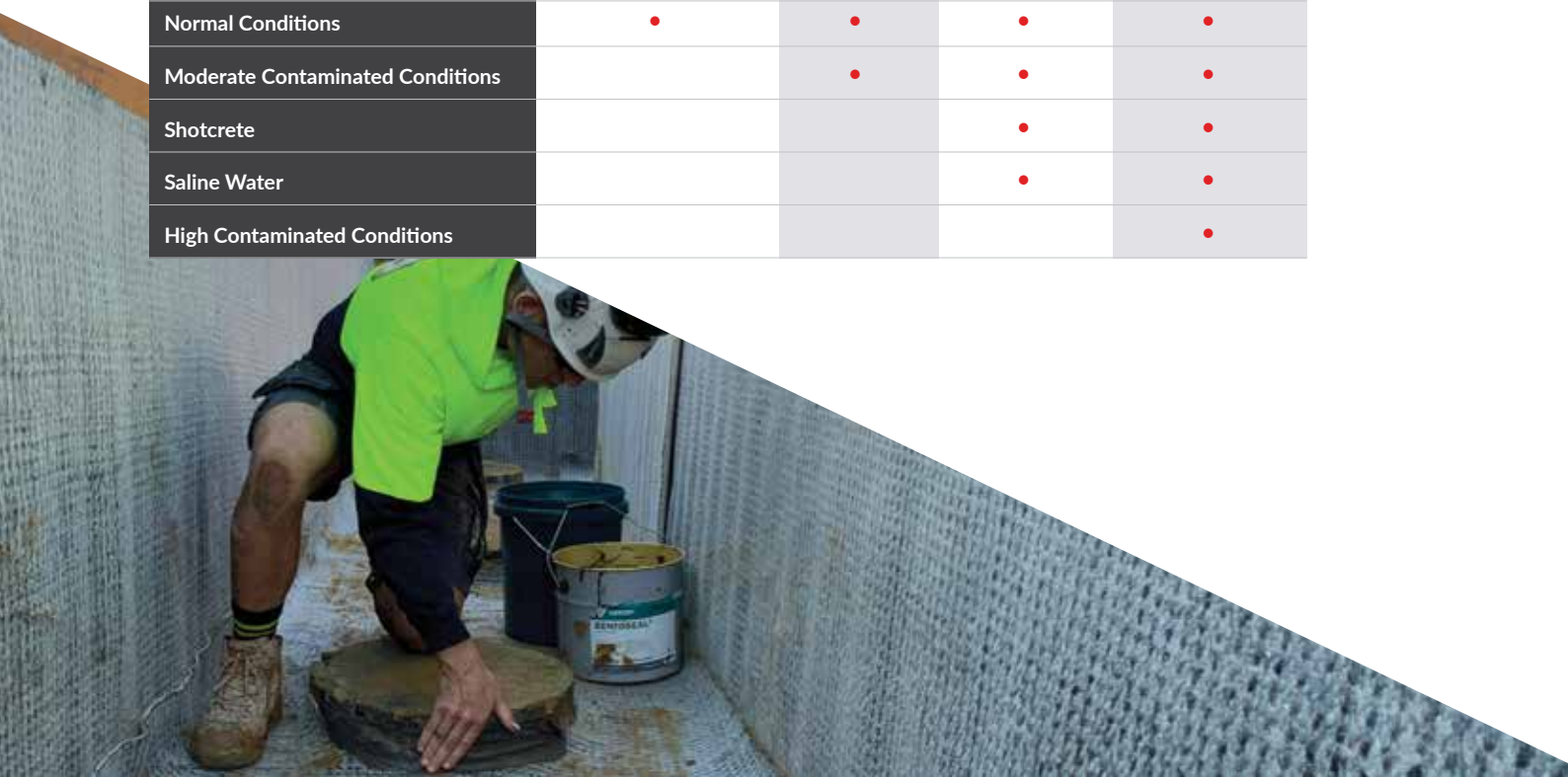
Our Voltex contaminant resistant range combines the proven waterproofing capabilities of our standard product with a high-strength HDPE liner and treated bentonite to offers unmatched durability and resistance to a variety of environmental contaminants, such as salt water, nitrates, phosphates, chlorides, sulfates, lime, and organic solvents. Our Voltex SWR is the only BRANZ appraised bentonite membrane approved for use in saltwater conditions.

Designed to excel in both regular and challenging conditions, the CETCO Voltex technology ensures low vapor and gas permeability, protecting structures from water ingress and contamination.

The self-seaming and self-healing properties of bentonite membranes also ensures that small tears and punctures common in construction environments are not an issue.

VOLTEX USES

USES	VOLTEX STANDARD	VOLTEX DS	VOLTEX SWR	VOLTEX ULTRA
Normal Conditions	•	•	•	•
Moderate Contaminated Conditions		•	•	•
Shotcrete			•	•
Saline Water			•	•
High Contaminated Conditions				•



CETCO VOLCLAY ACCESSORIES

CETSEAL

Multi-purpose, single component polyether moisture cure sealant/ adhesive. Cetseal is a non-shrinking product with excellent UV resistance, primarily used for grade termination sealant, membrane lap sealant and waterstop adhesive.

CETCOAT

Ideal for waterproofing concrete and masonry and also used with reinforcing fabric across movement joints. Cetcoat becomes an integral part of the surface by bonding and sealing through a crystallisation process. Cetcoat is a standalone flexible polymer cementitious membrane that does not require the addition of any liquid additive, requiring only water added to powder to form a high quality liquid membrane slurry system.

ALLGUARD

4mm membrane protection board used in vertical wall substrates prior to backfill.

TERMINATION BAR

Allco Termination Bar has been designed and tested to seal the edge of the membrane providing extra confinement pressure where the soil is usually not as compact.

AQUADRAIN 15X

Simple, reliable and cost-effective alternative to aggregate drainage. Aquadrain provides compressive strength and collects water for flow to drainage discharge pipes. The filter fabric allows water and other liquids to pass into the drainage core while restricting the passage of soil particles.

BENTOSEAL

Bentonite based mastic used with CETCO Volclay bentonite to detail at membrane terminations, around penetrations, over grouted concrete form-tie holes, and to provide fillets to inside wall corners. Unlike most mastics, Bentoseal is capable of swelling and self-sealing upon hydration and can be covered with a waterproofing membrane immediately after application.

WATERSTOP

Sodium bentonite based waterstop designed to stop water infiltration through cast-in-place concrete construction joints by expanding upon contact with water to form a positive seal against the concrete.

INSTALLATION

The installation of CETCO VOLCLAY membranes is exclusively carried out by an Allco Approved Applicators. Installation is undertaken in accordance with technical information related to the selected installation method, including information contained within the BRANZ Appraisal document and the supplier's installation instructions.





CETCO VOLCLAY TANKING RANGE

Industry-Leading Waterproofing Solutions.

Since 1963, more than one hundred million square metres of CETCO VOLCLAY waterproofing products have been installed around the world, becoming the standard by which all other waterproofing membranes are measured.

Allco offers a complete line of quality waterproofing membranes, waterstops, and drainage composites as well as a complete line of installation accessories. When specifying CETCO products, you are assured of optimum waterproofing performance specifically engineered to be integrated and installed as a complete waterproofing system.



If you would like to learn more or require assistance with design, specification or compliance, please speak with your Allco Account Manager today on (09) 448 1185 or tech@allco.co.nz



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