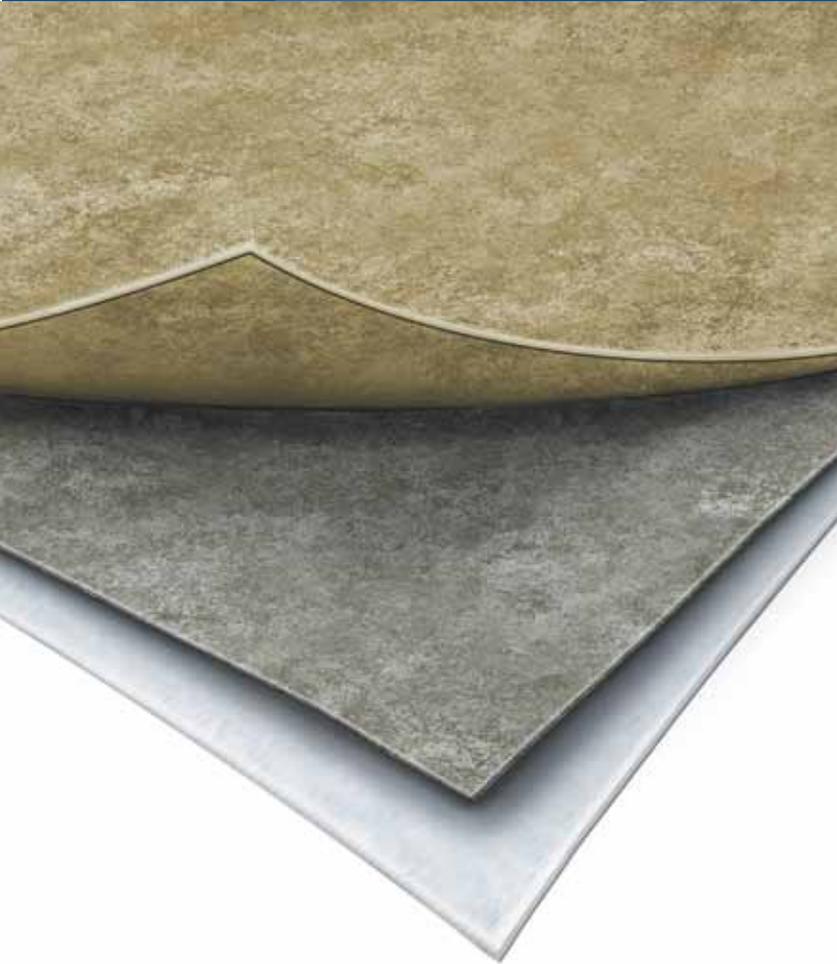


ADVANCED WATERPROOFING TECHNOLOGY

BT



SP

VOLCLAY
ULTRASEAL®

Ultraseal® waterproofing systems are engineered to provide the most effective below-grade waterproofing protection available. With Ultraseal, you can effectively envelope the entire exterior of the below-grade foundation, either blind-side construction or backfilled walls, to protect your structure from the devastating effects of water.



Ultraseal is the world's first waterproofing system that utilizes an advanced Active Polymer Core (APC) technology that is ten times less permeable and more chemically resistant than traditional hydrophilic waterproofing membranes. Additionally, Ultraseal weighs less than half that of other membranes allowing quick and easy installations. Two Ultraseal membrane composites - BT and SP - each with specific product performance features, provide the best waterproofing properties for back-filled foundation walls and blind-side applications, such as wood lagging retention walls.

Ultraseal SP

SP

Nonwoven Geotextile

APC Core

Geomembrane Liner

Ultraseal BT

BT

APC Core

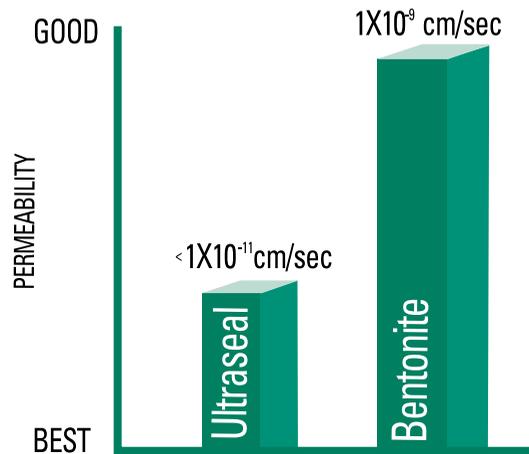
Geomembrane Liner

Ultraseal combines the installation advantages of CETCO's waterproofing systems with advanced APC technology for exceptional system performance. Ultraseal is quickly installed to provide greater flexibility to the construction schedule. The membranes are extremely durable and stand up to construction traffic and inclement weather. Ultraseal can actually be installed in freezing temperatures and applied to green concrete without having to wait for the concrete to cure. In short, Ultraseal can help you meet or stay ahead of your demanding construction schedule.



Ultraseal is ideal for waterproofing blind-side property line construction, under structural slabs, and foundation walls. Over the past 45 years, CETCO's waterproofing systems have been successful in providing waterproofing protection on thousands of projects worldwide.

EXTREMELY LOW PERMEABILITY



The baseline permeability of Ultraseal is 10 times better than traditional bentonite waterproofing membranes.

CHOOSE THE MEMBRANE THAT MEETS YOUR PROJECT NEEDS

Two different Ultraseal membranes provide unique product features for different construction applications. Ultraseal SP is a three component composite membrane consisting of the APC core layer between a geotextile and a geomembrane. ULTRASEAL SP is designed for waterproofing under structural slabs. Ultraseal BT consists of the APC core layer integrally bonded to a geomembrane. Ultraseal BT is designed for backfilled concrete and masonry block foundation walls, cut-and-cover tunnels, earth-covered structures and property line blind-side construction, such as soldier pile and lagging, and metal sheet pile retention walls.

ENGINEERED PERFORMANCE, RELIABLE WATERPROOFING PROTECTION

Ultraseal is an economical waterproofing solution because of its ease of installation. Once backfilled against or covered by concrete, Ultraseal works by forming a low permeability membrane upon contact with water. When wetted, unconfined Ultraseal can swell many times its dry volume. When confined, the swell is controlled, forming a dense, impervious waterproofing membrane. The swelling action of Ultraseal can seal small concrete cracks caused by ground settlement and concrete shrinkage. When concrete is poured against Ultraseal, a strong mechanical bond is formed and locks it to the concrete. With Ultraseal, you get waterproofing protection once the concrete is poured against the installed system.

APPLICATIONS

BT
Ultraseal BT is designed for backfilled foundations walls, tunnels, earth covered structures and property line construction such as soldier pile and lagging retention walls.

SP
Ultraseal SP is designed primarily for under slab applications. Both membranes work under continuous and intermittent hydrostatic pressure conditions.



ADVANTAGES

ULTRASEAL OFFERS MANY PERFORMANCE ADVANTAGES

1. EXCELLENT HYDROSTATIC RESISTANCE

Ultraseal has been successfully tested to resist 231 ft (100 m) of hydrostatic pressure.

2. EXTREMELY LOW PERMEABILITY

The baseline permeability of Ultraseal is at least 10 times better than traditional bentonite waterproofing membranes.

3. CONTINUOUS BOND STRENGTH TO CONCRETE

Ultraseal creates a mechanical bond where concrete is poured against the membrane.

4. SELF-SEALING MEMBRANE LAPS

Watertight laps are formed upon activation of the APC to provide reliable field performance.

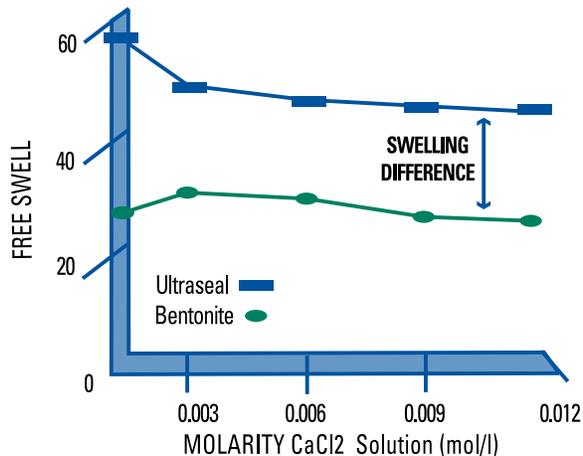
5. HIGH CHEMICAL RESISTANCE

Ultraseal resists higher concentrations of salts and organic solvents than traditional hydrophilic waterproofing systems.

6. EFFICIENT INSTALLATION

Ultraseal's large, light weight rolls enable a fast installation to achieve a higher daily production rate.

SUPERIOR CHEMICAL RESISTANCE



Ultraseal's higher swell in salt solution results in better waterproofing performance.

EFFECTIVE, RELIABLE WATERPROOFING



Upon hydration, the APC core expands to form a dense, impervious waterproofing membrane.

SUPERIOR EXPANSION PERFORMANCE

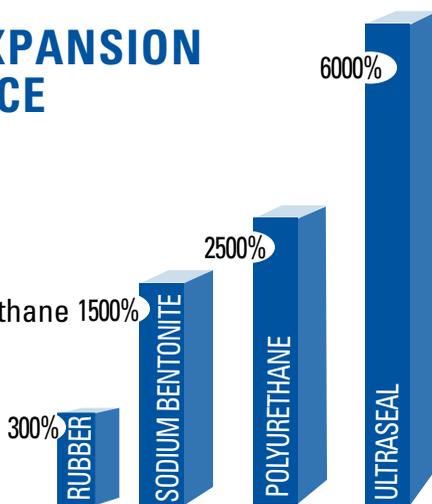
MATERIALS

Hydrophilic Rubber

Sodium Bentonite

Hydrophobic Polyurethane

Ultraseal



Ultraseal's unique APC technology provides superior expansion over traditional hydrophilic waterproofing materials.

SINGLE SOURCE WATERPROOFING SOLUTIONS

Now you can waterproof the entire below-grade structure with products from a single manufacturer. There is no need to specify dissimilar materials from different manufacturers. Ultraseal membranes are part of a complete waterproofing and drainage product line engineered by CETCO for peak performance.

Both Ultraseal SP and Ultraseal BT incorporate the same advanced APC technology and therefore are completely compatible. As a result, difficult system tie-ins and detailing are no longer a concern.

The logo features the word "VOLCLAY" in white capital letters inside a black oval, positioned above the word "ULTRASEAL" in large, bold, black capital letters. The "ULTRA" portion of "ULTRASEAL" is rendered in a green, 3D-style font.

With more than 45 years of experience, CETCO has earned the reputation as a leader in the below-grade waterproofing industry. CETCO's proven waterproofing systems have been successfully installed on some of the world's most important structures in over 60 countries. With nearly one billion square feet of membrane installed worldwide, architects, engineers, specifiers, and contractors know they can depend on CETCO for proven products and reliable performance. CETCO's commitment to the industry, through ongoing research and technology development, has resulted in many product improvements and innovative waterproofing solutions. Additionally, CETCO has highly skilled technical service personnel around the world to assist customers with design inquiries and the use of CETCO products. Let CETCO assist you with protecting your next structure from the devastating effects of water.

SIZE AND PACKAGING

Both Ultraseal BT and Ultraseal SP are available in 4' x 25' (1.2 x 7.6 m) rolls. Both are packaged 25 rolls per pallet; 2,500 sq. ft. (232 sq.m.).



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Supersedes All Previous Versions