

Who We Are

1-800-Busy-Dog Basement Technologies® is the fastest growing basement waterproofing dealer network in the world, having a working “model” in the northeast where our dealers can model their prospective companies after. We proudly present our existing dealer family and as we continue to grow, watch for new additions to our family in your area.

1-800-Busy-Dog Basement Technologies® and Basement Technologies, Inc.® are our “model” local companies which service homes and businesses in Massachusetts, New Hampshire and Rhode Island. All dealers use Basement Technologies® as the “role model” for operating their own local Basement Technologies dealership.

We design, manufacture, supply and install all our own patented products. Our network of dealers cover the U.S., Canada and the Ukraine. All dealers are “licensed” by our corporate office as a certified “licensed” dealer adhering to our rigid standards for quality installations, products and customer service. Our products are all custom-tailored to each sub-floor situation, unlike many “cookie cutter” systems on the market today.

We have 15 Federal patents, 11 patents pending and over 30 Federal registered trademarks, and we only allow our trained and licensed dealers to utilize and install our patented products.

No one tries harder than 1-800-Busy-Dog Basement Technologies® to provide superlative basement waterproofing and continually upgrades the industry’s standards.

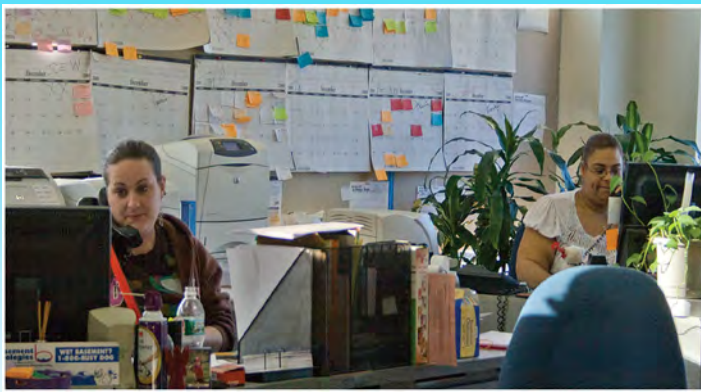
With our flagship company in Massachusetts, Rhode Island and New Hampshire, we train all new and existing dealers at our training center. Our basement and crawl space training center maintains a complete inventory of products and supplies. It is the home-base for training our new dealers and employees in state-of-the-art basement waterproofing techniques. Customers are presented our “done once – done right” solutions from only fully-trained and experienced technical estimators.



**Dealer training
at our international
training center where
we teach our
state-of-the-art
basement
waterproofing
techniques.**



We're Here For You



1-800-Busy-Dog Basement Technologies® has dealers throughout the U.S., Canada and Ukraine. All dealers use 1-800-Busy-Dog Basement Technologies® as their model company for their businesses.

Call 1-800-Busy-Dog (287-9364) or e-mail us at info@basementtechnologies.com. Please visit our website at www.basementtechnologies.com.

About Our Founder

James Pratt, Founder and President of our two companies, 1-800-Busy-Dog Basement Technologies® and Basement Technologies, Inc.®, has over 30 years of experience in basement waterproofing, structural repair and remodeling. James was trained in marine and fluid technologies and has several degrees from the prestigious Florida Institute of Technology. He has been instrumental in changing the way the waterproofing industry approaches water problems and has literally reinvented the way basement waterproofing is being done today. James has devoted much of his time and energy to research and development. As a result, his patented products and systems are being installed by dealers throughout the world in thousands of homes. Thanks to James' "hands-on" approach, insisting on complete follow through on each project, quality installations and service, homeowners are assured their basement waterproofing project will be done with professionalism.

(12) **United States Patent**
Pratt

(45) Date of Patent: Jul. 29, 2003

(54) **BASEMENT WATER DRAINAGE CONDUIT AND METHODS OF USE THEREOF**

(76) Inventor: James M. Pratt, P.O. Box 920624, Northam, MA (US) 02492

(*) Note: Subject to any disclaimer, the term of this patent is extended or adjusted under 35 U.S.C. 154(b) by 0 days.

(21) Appl. No.: 10/833,567

(22) Filed: Jan. 2, 2002

Related U.S. Application Data

(69) Provisional application No. 60/255,792, filed on Dec. 18, 2000

(51) Int. Cl. E21D 11/00

(52) U.S. CL. 52/168.5; 52/730.4; 52/731.2; 52/732.1

(56) Field of Search 52/160.5; 730.4; 52/731.2; 732.1

(58) References Cited

U.S. PATENT DOCUMENTS

1,300,774 A	* 11/920	Mooney et al.	52/731.2
2,941,825 A	* 6/190	Harris	52/828
3,971,149 A	* 4/19/4	Hansen et al.	52/732.1
4,171,598 A	* 10/17/9	Holmes	52/718
5,281,844 A	* 8/19/9	Sanzky	52/169.5
5,715,643 A	* 2/19/0	Perkins	52/656.9
5,765,823 A	* 6/19/0	Berthiaume	52/169.5

1 Claim, 4 Drawings

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1 Claim, 4 Drawing Sheets

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Pratt

(45) Date of Patent: Apr. 24, 2012

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(21) Appl. No.: 12/833,567

(22) Filed: Jan. 2, 2002

Related U.S. Application Data

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TECHNI-CRACK®

**1-800-Busy Dog
Basement
Technologies**
The Basement Specialists™
Basement Waterproofing

HYDROPHOBIC MEMBRANE PROCESS FOR POURED WALL CRACKS



Poured foundation wall cracks generate water onto the basement floor.

The Techni-Crack® product uses a patent pending hydrophobic membrane with an injection process. If water enters from the treated crack (and most, if not all water is prevented from entering by the injection process) it will be repelled efficiently into the system below. Current foundation crack injection methods do not meet 1-800-Busy Dog Basement Technologies® standards. The need to develop and implement a better product was achieved with our introduction of Techni-Crack®. Ask your 1-800-Busy Dog Basement Technologies® representative how our Techni-Crack® hydrophobic membrane process can repair your walls permanently.

Poured Foundation **WARRANTED**
Wall Seepage Solution

1-800-Busy Dog Basement Technologies® recognized a need to have a flawless wall crack waterproofing method. The available solutions on the market today do not compare to our patent pending Techni-Crack® method.



Optional polyurethane injection stops water from the outside of the wall (for really severe leaks).

One part polyurethane sealant on the crack.



We apply hydrophobic gel on the back of the Techni-Crack® membrane and apply it to the wall. We then tie it into the Water Trek Aqua Route® system or drywell.



Finishing the Techni-Crack® membrane with sealant.



Finished Techni-Crack®.

1-800-BUSY DOG®





Poured foundation warranted wall seepage solution.

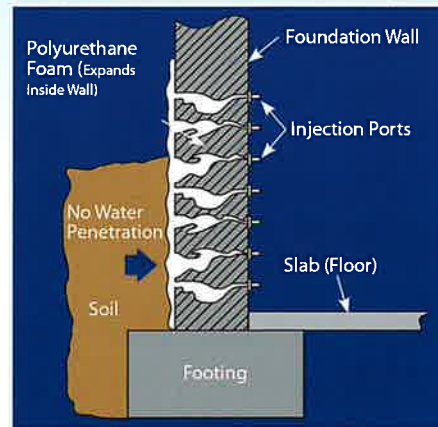
1-800-Busy Dog Basement Technologies® has been using polyurethane and epoxy injection for years. Although these types of injections are successful, problems can develop over time. Concrete walls and soil expand and contract, which can generate the need for further repair. 1-800-Busy Dog Basement Technologies® saw the need to go a step further and develop a “fool proof” method for foundation crack waterproofing. The Techni-Crack® process eliminates the need for further repairs and provides a lifelong solution. The hydrophobic compound applied to the back of the membrane repels any water quickly and efficiently directs it to the system below. It has proven to be the most reliable method available on the market today.

It just works better!

Inventing a better method to seal cracks in poured foundation walls that would not require constant repair, was important to 1-800-Busy Dog Basement Technologies’ R&D Division. The resulting process and product simply work better. The primary “seal” put in place during the process works alone, yet with the addition of the Techni-Crack® hydrophobic membrane, homeowners can be assured they have a worry free solution in place.

- 1 Seal the crack with a special concrete sealant. This sealant will stop the water leak. For real problem leaks, a polyurethane injection can be added to our process.

Stops The Water From Coming In



- 2 Install Techni-Crack® hydrophobic membrane with our special hydrophobic gel on the crack and seal with our special concrete sealant.
- 3 Tie the Techni-Crack® membrane and sealant into our Water Trek Aqua Route® system or a drywell under the floor.

For protection with a warranty, our Techni-Crack® serves as a lifelong solution. After many years, due to concrete shrinking, swelling and settling, there is a chance that a small leak may reoccur. With the Techni-Crack® application, this problem is resolved.

1-800-BUSY DOG®

www.1800busydog.com

1(800) 287-9364



CHEMCRETE

CEMENTITIOUS CRYSTALLINE WATERPROOF SYSTEM
FOR FIELDSTONE, BRICK & POURED FOUNDATIONS

**Basement
Technologies**
The Basement Specialists™
Basement Waterproofing

LEAKING FIELDSTONE, BRICK AND POURED WALLS SEALED FOREVER!!

The Basement Technologies Chemcrete is a one component crystallizing capillary water proofing system composed of many active chemicals. In the presence of moisture, these active chemicals penetrate concrete and react with free lime to produce insoluble crystals that have an affinity to moisture and continue to grow. This crystal growth reduces concrete porosity by blocking capillaries and filling hairline non-structural cracks up to .01 inch caused by contraction or expansion. Quite simply, once applied it continues to grow crystals and stop water. As concrete expands and contracts Chemcrete will do the expansion.

WARRANTED
NOT to Leak!!!

Fieldstone and brick walls offer a beautiful rustic look in older basements, however if they leak or allow rodents into the space then they are officially a problem to be solved.



Mortar joints and voids in these walls lead to nonstop water and or a rodent infestation.



1-800-BUSY DOG®



CHEMCRETE

CEMENTITIOUS CRYSTALLINE WATERPROOF SYSTEM
FOR FIELDSTONE, BRICK & POURED FOUNDATIONS

**Basement
Technologies**
The Basement Specialists™
Basement Waterproofing

WARRANTEED
NOT to Leak!!!

Basement Technologies Chemcrete has been used for over 10 years in elevator pits and many subgrade high water pressure areas. The expansion and fine tuning of the Chemcrete molecule and application process to treat fieldstone and block walls has been successful for nearly 10 years. However, due to block wall pressure there is a variable on block wall warranty.



1-800-BUSY DOG®

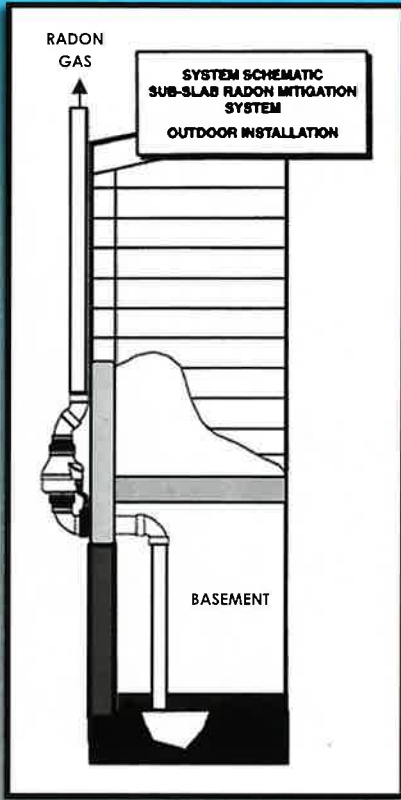


Radon Mitigation

Basement Technologies:

Installing Radon Mitigation Systems for close to 30 years.

1-800-Busy Dog
Basement Technologies
The Basement Specialists™
Basement Waterproofing



THERE ARE 3 POSSIBLE ROUTES FOR YOUR RADON ELIMINATION PIPE INSTALLATION:

- Exterior
- Interior
- Garage route

EXTERIOR ROUTE:

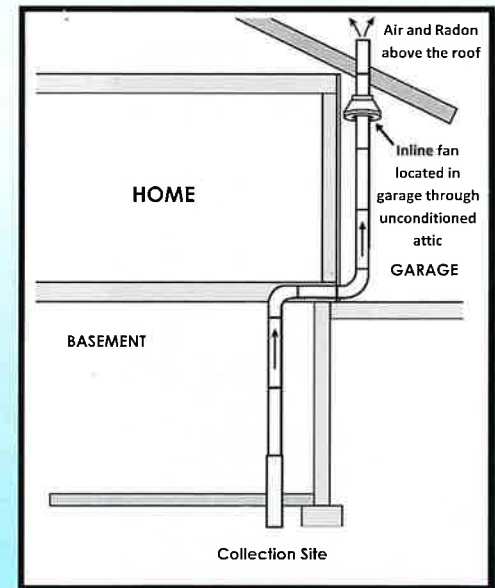
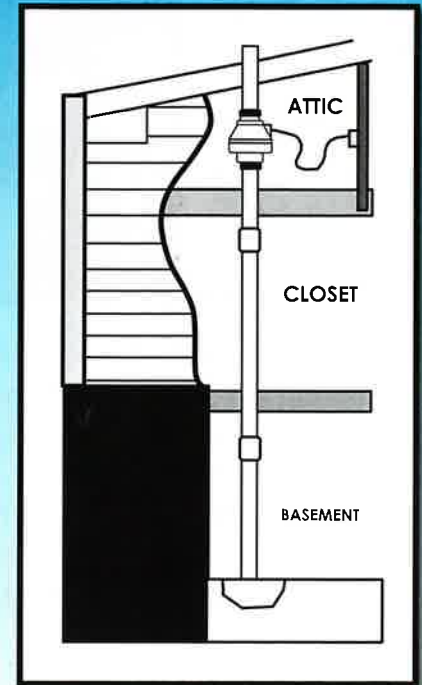
The most common is exterior with fan mounted on band board of home and exit point to eave line 10 feet away from adjacent opening or 2 feet above if within ten feet.

INTERIOR ROUTE:

This is usually through the house through stacked closets. The fan is mounted in an UNCONDITIONED attic space and penetrates the roof.

GARAGE ROUTE:

We penetrate through the garage with a fire ring in case of fire. The fire ring and pipe are mounted in an UNCONDITIONED garage roof.



WHAT ARE "DROP POINTS"?

In radon system the low pressure "field" is established by the introduction of suction under slab. The "communication" is the continuity of pressure under the slab that draws the radon gas and moves it toward the "collection point" – The collection point is simply the area the slab is penetrated and the pipe is installed. The pipe creates a vacuum and draws the radon into the pipe and to the exit point at eave line or roof.



WHAT IS A MANOMETER?

The manometer is a "u-tube" that measures suction in water column inches and is mounted at eye level over each collection point.



1-800-BUSY DOG®



WHY ARE THERE DIFFERENT TYPES OF FANS?

There are multiple fans that can be obtained but after all is said and done there are only two distinctions:

1) High volume and 2) High suction.

High volume fans are usually for newer construction applications where there is excess of stone under the slab and in order to create a field of suction

there is a necessity to move large volumes of air that is due to excellent communication. If the volume of air is not moved quickly the radon gas can make it form under the slab into the habitable area.

High suction fans are generally for older construction where there will not be great communication under the slab (less stone, more dirt). We need to “draw hard” for a field of communication under the slab.

SOME BASIC GUIDELINES FOR RADON MITIGATION:



Exterior Installation

- Exit points: Ten feet from any adjacent openings – 2 feet above any openings that are within ten feet
- Be aware of rain water entry
- Pipe attached to home every 6-8 feet on vertical rise
- Manometer at all collection points
- Clear labeling of all interior pipes stating “radon system” and listing license number
- Labeling of dedicated circuit for radon fan
- Radon fan hard-wired to panel
- Communication and back draft tests done before mitigation leaves



Interior Garage or
House Roof



Through Unconditioned Attic

**Basement Technologies: Installing Radon Mitigation
Systems for close to 30 years.**



1-800-BUSY DOG®





Permanent Basement Wall Repair

Best under pressure.

**THE ONLY SOLUTION WITH
ALL THESE BENEFITS:**

- ICC-ES building code certification.
- Lifetime warranty.
- Stronger than original wall.
- Carbon fiber & Kevlar system.



The Fortress Stabilization System is protected by Patent No. 7743585, 7823354, 8142102, 8367569, 9034775, 6746741, 6846537, RE39839, 9528286, 9290956, 9290957, 9790697, 3040496 and other pending patents.

A Complete System For A Complete Solution

Top Anchor

The first company to develop a top-of-wall anchor.

The Fortress top anchor is post-tensioned after installation. This ensures that the top anchor and wall are engaged under tension, and holding fast, when the job is complete. No other company has a post-tensioned wall anchor.

Bolting to the rim joist is safer. The sill plate is not adequately connected to the floor joist to carry the load. The Fortress top anchor is mechanically fastened to the rim joist, not the sill plate. By connecting to the rim joist, the Fortress top anchor engages the building's floor system, providing a stronger, more durable anchor. This prevents any movement of the basement wall.

A stronger connection. Many older homes do not have enough sill plate-to-foundation wall connections to ensure that the sill plate will hold under stress. Engaging the floor system (first story floor to top of basement wall) provides the strongest, safest connection.

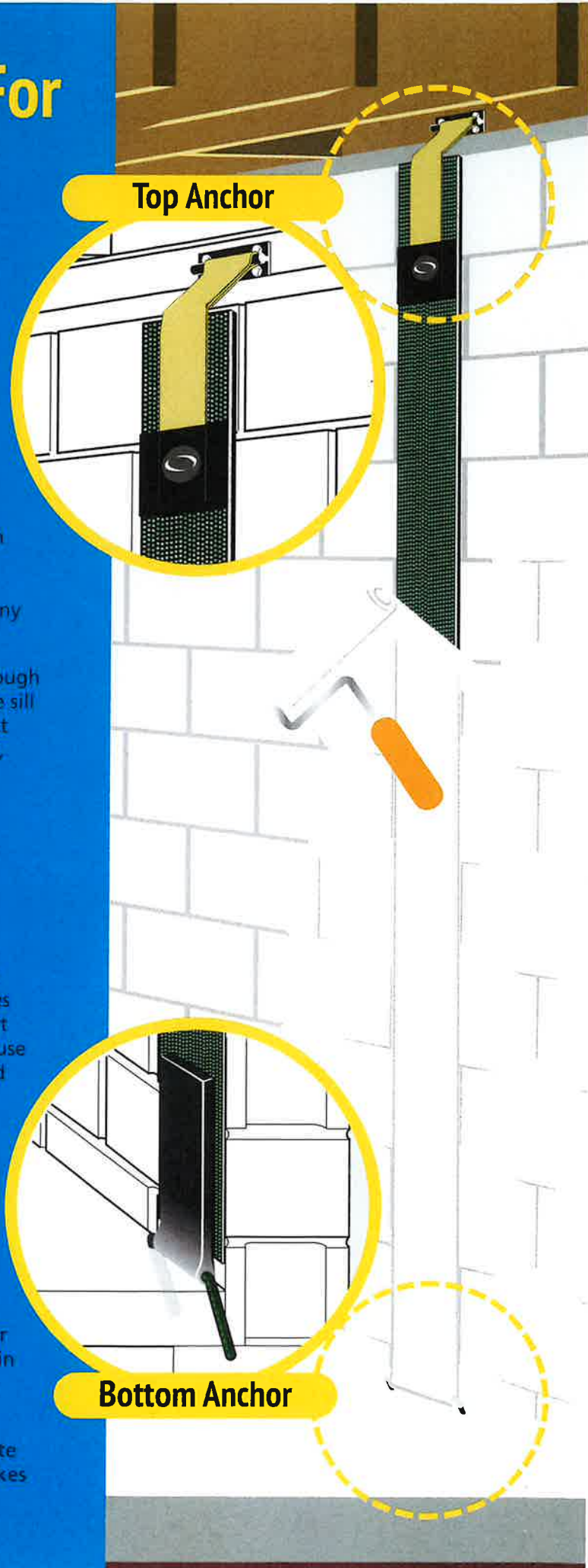
Bottom Anchor

The best in the industry. Here's why:

The quality of the bottom anchor construction is very important. Because preventing shear requires strength, we made our bottom anchor over 5 times thicker and 125 times stiffer than the competition. In addition, we make sure that the connection to the foundation is absolutely secure. We use a dual leg solution with specific contact lengths engineered to achieve a 200% safety factor. Our bottom plate anchor is the best in the industry.

The Fortress bottom anchor secures your wall from shear slide. Shear slides can occur at the bottom of masonry walls where shear forces are greatest. This inward movement of the wall is defined as shear. In typical situations the basement floor holds the bottom of your wall from moving in, but where there are excessive shear forces, the Fortress bottom anchor is needed. The bottom anchor uses the basement floor to secure the Carbon-Kevlar strap and prevents shear slides. The bottom anchor is used in both block and poured concrete walls.

The best solution to bottom-of-wall anchors. The Fortress bottom anchor takes the proven American Concrete Institute recommendation for anchoring carbon fiber straps and makes it better.



What goes into the Fortress Carbon-Kevlar Strap?

Not all carbon fiber is created equal.

Before considering another carbon fiber system, ask how their fibers are arranged. Conventional manufactures commonly weave the carbon. This produces an attractive woven pattern, but this method also crimps the fibers while going over and under each other. When force is applied to a woven pattern, the bent fibers try to straighten out, which reduces effectiveness.

You can see that it's done right.

Fortress has always been concerned with having the best composite performance. All strength in fiber composites is gained when the fibers are straight. Unidirectional fibers lay flat, eliminating flex when force is applied. The unidirectional method Fortress has developed creates a product twice as strong as products using woven carbon fibers. This Fortress propriety manufacturing process allows for a true unidirectional carbon product, which is the perfect tool to reinforce foundations.

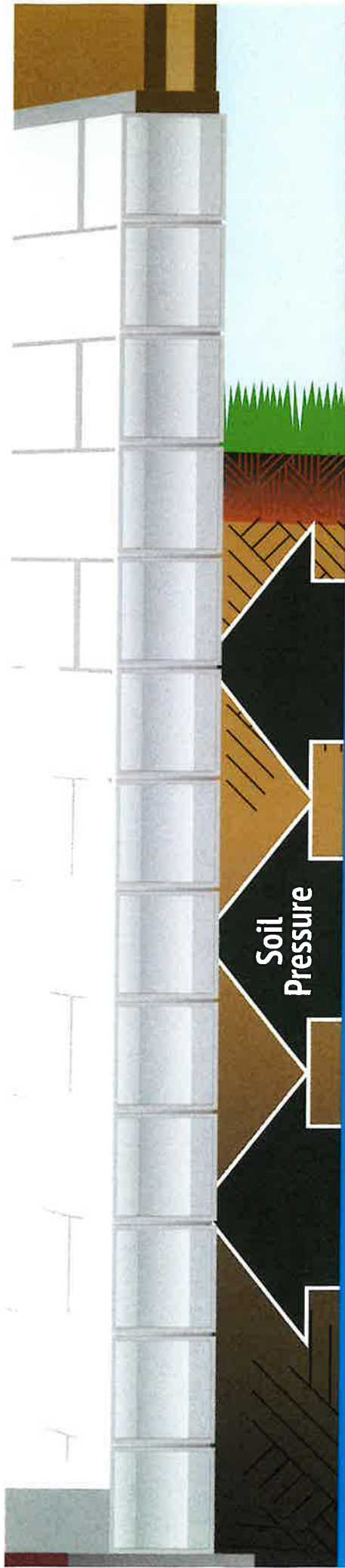
Exclusive open grid technology.

The Fortress open grid technology (OGT) combined with epoxy rivet technology (ERT) connects to the carbon grid to form a mechanical bond to the wall. Epoxy rivet technology forms an adhesive bond between the grid and the masonry substrate which load to the carbon fiber, creating an adhesive bond as well as a mechanical "rivet" between each fiber of the grid. There are over 8,000 epoxy rivets securing a single strap to your wall. OGT and ERT are exclusive to the Fortress system.



Strongest strap available. Fortress is the strongest carbon fiber system available. Every lot produced is tested to meet our guaranteed minimum tensile strength of 234,700 psi. For full details, view the Fortress Carbon Grid Strap Design Manual on our website.

Product	Ultimate Tensile Strength (psi)
Fortress Carbon-Kevlar	234,700
Zoltek Panex PX35	203,000
VSL V-Wrap C100	140,000
Edge FiberBond	140,000
Quakewrap TU27C	135,000
Fife Tyfo SCH-41	121,000
Sika SikaWrap Hex 117C	105,000
Competitor R	51,571



The Only System With ICC Certification and a Lifetime Warranty



What does "ICC certified" mean?

The International Code Council (ICC) was formed in the 1990s by the three major U.S. regional building code agencies and developed the current International Building Code. This code is used to protect public health and building safety throughout the United States and in countries around the world. ICC developed its Evaluation Service (ICC-ES) to certify that products intended to be installed in a home or business are safe and are building code approved. Certification by the ICC-ES means a product and its manufacturing process have been tested, evaluated and regularly audited by ICC to meet or exceed product performance reliability. Fortress obtained ICC-ES certification through a rigorous testing process performed by an ISO 17025 accredited laboratory at the University of Miami, Structures and Materials Laboratory. The ICC-ES certification identifies Fortress Stabilization Systems as a premier building product manufacturer able to produce consistent and reliable product performance. A copy of the Fortress Stabilization Systems' ICC-ES report is located on our web site.

Why does ICC certification matter?

An ICC-ES approved product can be immediately identified by any code official, home inspector, or bank appraiser as building code approved. The ICC ESR report number identifies the Fortress system as approved by every local building code agency in the United States. This means a Fortress certified product will pass every building code inspection so you can have peace of mind that it's safe for your home. Fortress' transferable lifetime warranty together with ICC-ES certification will show potential buyers and lending institutions that you installed the best system available if you ever decide to sell your home. Trying to sell your home without a building code approved system could be a very costly mistake. Make sure you use only an ICC-ES, building code approved product.

Proudly made in the USA. The Fortress top anchor, bottom anchor and Carbon-Kevlar straps are made in the USA at our 25,000-sq. ft. manufacturing facility in Holland, Michigan.



184 West 64th Street, Holland, MI 49423
Tel: 616-355-1421 Fax: 616-355-1428
Email: Solutions@FortressStabilization.com

1-800-207-6204 | FortressStabilization.com



THE BULLDOG BULKHEAD REPLACEMENT DOOR

1-800-Busy Dog
Basement
Technologies 
The Basement Specialists™
Basement Waterproofing



Any Size... Any Shape
"Your Cellar Entrance Solution"

Any Size... Any Shape...

We can make what you want - to the inch
stock or custom
One door or two?
Inside or outside lock?

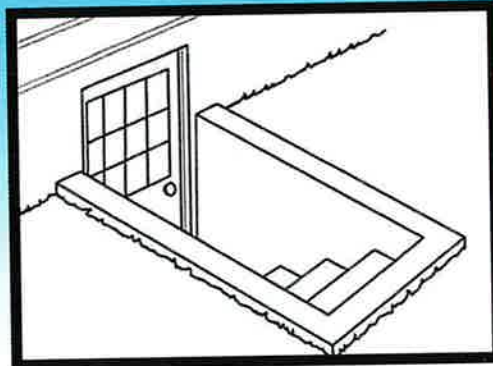
1-800-BUSY DOG®



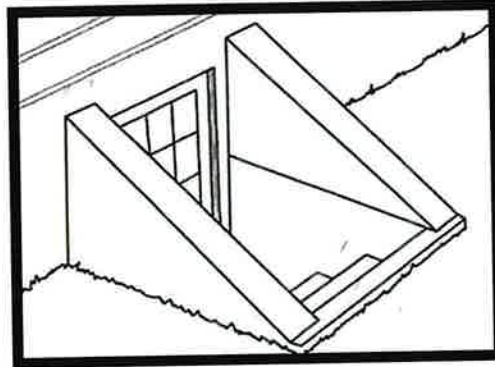
Select The Appropriate Style Door

Traditional Doors

ANGLED
Doors
(fit on top of flat
foundations)

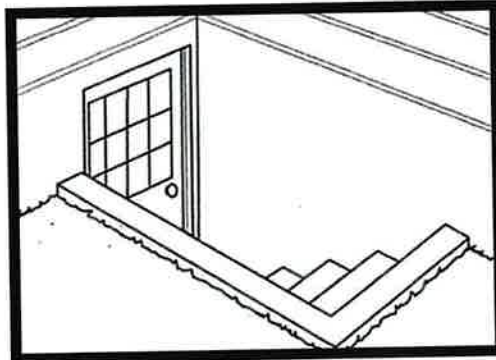


FLAT
Doors
(fit on top of angled
foundations)

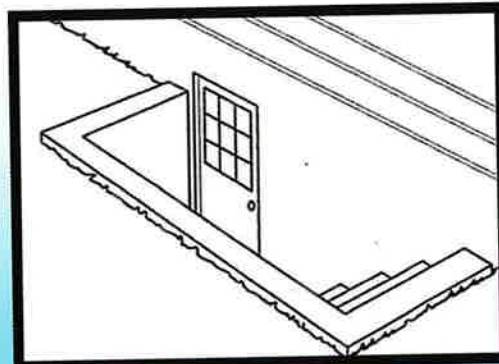


Specialty Doors

"CORNER"
Doors



"ALONG-SIDE"
Doors



1-800-BUSY DOG®



Features and Benefits

What makes the Bulldog Bulkhead Door the best?

LONG LASTING . . .

Fully-welded joints and multiple coats of primer are just a few of the exclusive features that will ensure years of durable service.

UNLIMITED SIZE SELECTION . . .

Costly extensions and clumsy add-ons are a thing of the past. You get the right door for the job . . . just screw it down, caulk around the outside, give it a coat of paint and you're done!

WEATHER PROOF . . .

Our design of overlapping returns and gutters allows Basement Technologies' doors to shed the worst weather that Mother Nature can dish out.

STRONG . . .

All welded seams, reinforced as needed and the thickest gauge steel you can buy. Able to handle a snow load or heavy use. No more bolts that rust and leak.

IMPROVED SECURITY . . .

Bulldog Bulkhead doors are designed with security in mind. Our fully welded doors feature interior hinges and mounting flanges, as well as an interior slide-bar lock that prevents unwanted intruders from gaining access to your home or business. (Note: Other locking arrangements are also available.)

PAINTABLE . . .

All our doors come primed in a red metal oxide primer. Once installed, they can be painted any color you desire to best match your home or business.

BULLDOG BULKHEAD DOORS FEATURE . . .

- 100% Steel Construction
- Fully-Welded Joints
- Double Torsion Springs on each hinge
- Integrated Hold-Open Bar
- Multi-Coat Rust Inhibitive Primer
- Weather Resistant Design



☆ BULLDOG CERTIFIED ☆

1-800-BUSY DOG®



THE BULLDOG BULKHEAD REPLACEMENT DOOR

1-800-Busy Dog
Basement
Technologies
The Basement Specialists™
Basement Waterproofing



Any Size... Any Shape
"Your Cellar Entrance Solution"

Any Size... Any Shape...

We can make what you want - to the inch
stock or custom
One door or two?
Inside or outside lock?

1-800-BUSY DOG®





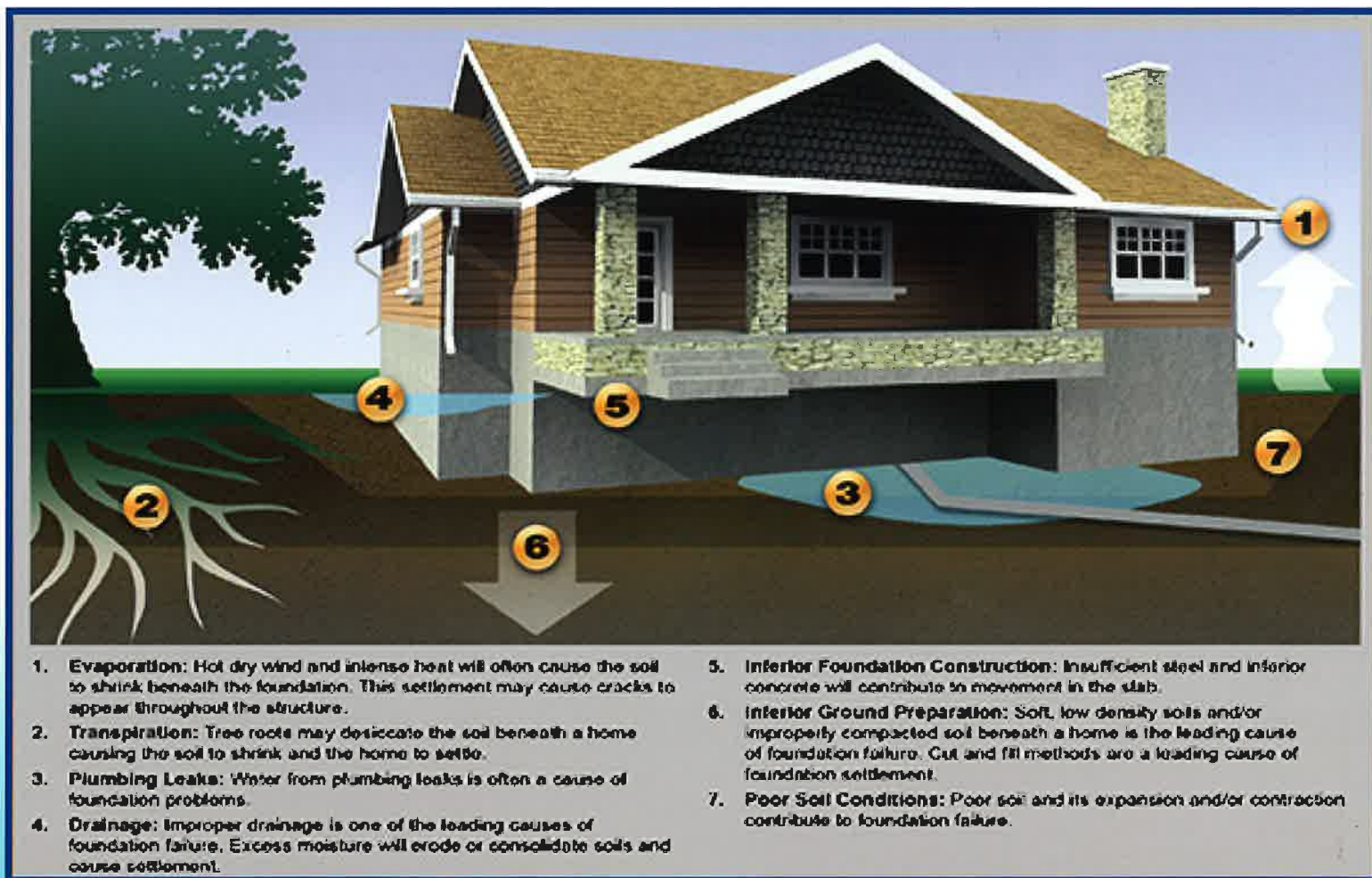
Although there are many causes for foundation problems, Lifting your home back to being level is not as hard as you may think. Basement Technologies® utilizes the best post-construction lifting/piering system on the market today developed by DynaPier®. We get under your footing and lift the house up.

Piering systems work on a basic mechanic:

Drill + Lift + Hold.

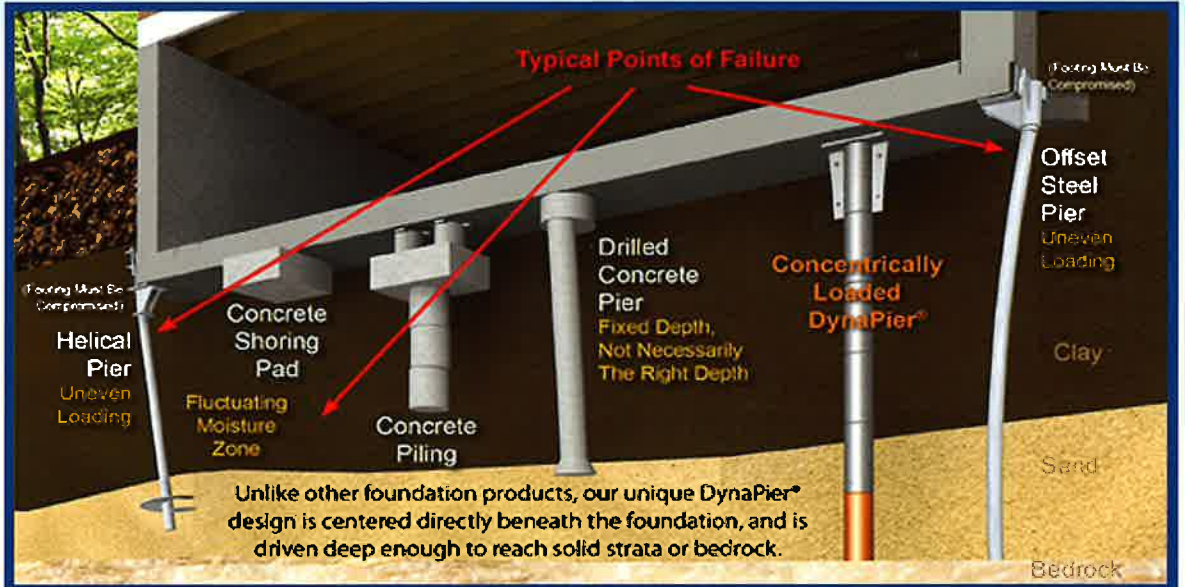
Unlike other companies that tie onto the footing from the side with brackets and proceed to lift the footing and structure sideways, Basement Technologies® lifts your home from under the footing. Lifting the footing, which in turn, lifts the house and holds it permanently is the best way to ensure a stable foundation.

Causes of Foundation Problems



Why DynaPier® Is The Best

The DynaPier® system was designed to be the strongest foundation pier in the industry by combining steel and high strength concrete. It is installed centrally beneath the footing rather than outside of the footing, thus transferring the structural load directly on top of the foundation pier. The DynaPier® will achieve the greatest depth while installed in a position to provide the greatest support. No other piercing system can make these claims.



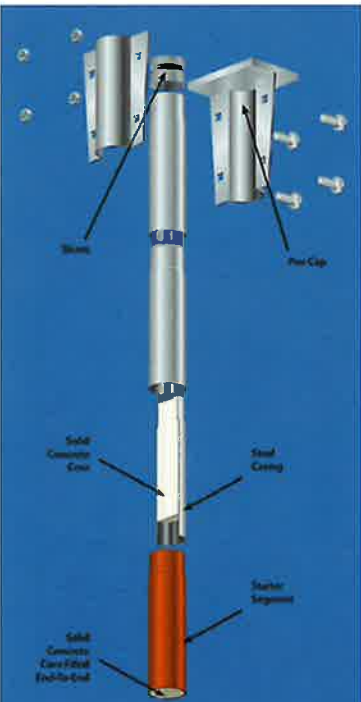
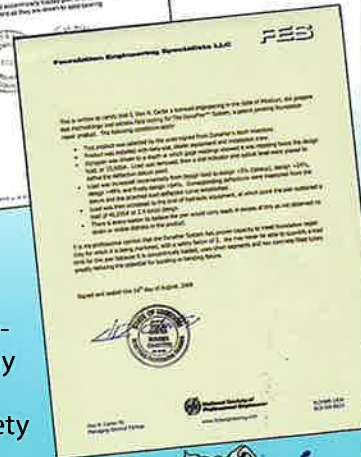
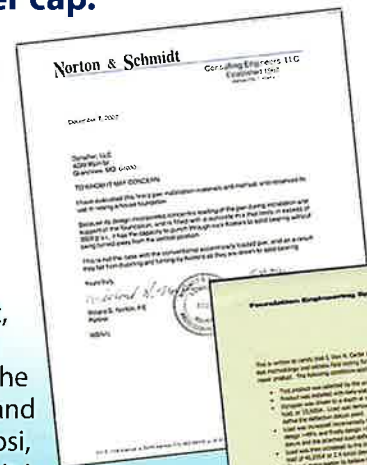
- The pier is located centrally and directly beneath the foundation footing.
- All parts are connected to form a monolithic unit.
- Installation does not require removal or breaking of the footing; footing remains completely intact.
- ALL shims are contained within the pier cap.

The result is a foundation that far exceeds the home's original structural integrity, making your foundation better than new.

What The Experts Say!

Willard Norton, a founding partner of Norton & Schmidt, a respected engineering and consulting firm states that "Because its design incorporates concentric loading of the pier during installation and support of the foundation, and is filled with a concrete mix that tests in excess of 3500 psi, it has the capacity to punch through rock floaters to solid bearing without being turned away from the vertical position."

And Don Carter, an experienced and highly-respected consulting engineer specializing in foundation design and performance, states "It is my professional opinion that the DynaPier system has proven capacity to meet foundation repair duty for which it is being marketed, with a safety factor of 2."



Technical Specifications: DynaPier® segments are comprised of 2-7/8 diameter 5 gauge powder-coated or galvanized tubing. The steel segments are pre-cast with 8,800 psi concrete mix. Segments that have cured for 28 days can withstand compressive loads in excess of 75 tons.



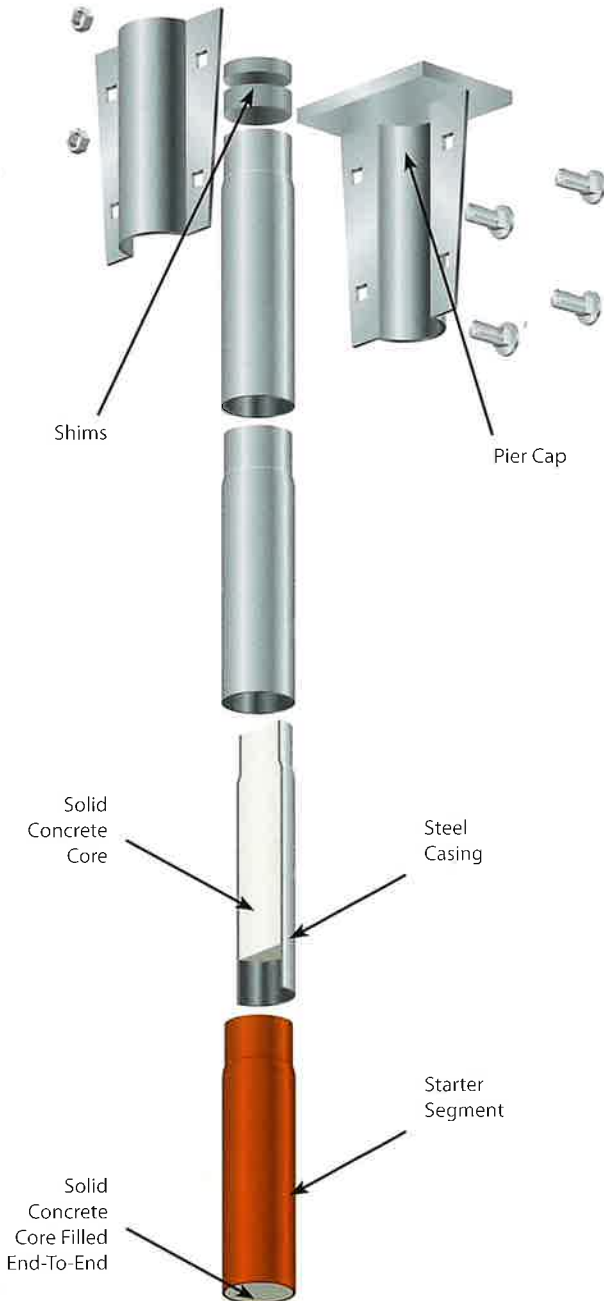
DynaPier®



Go Deep With DynaPier!

DynaPier®

Go Deep With DynaPier!



Technical Specifications:

DynaPier® segments are comprised of 2⁷/₈" diameter 8 gauge powder-coated tubing. The steel segments are pre-cast with an 9,000 psi concrete mix. Segments that have cured for 28 days can withstand compressive loads in excess of 75 tons.

The Unique DynaPier® System



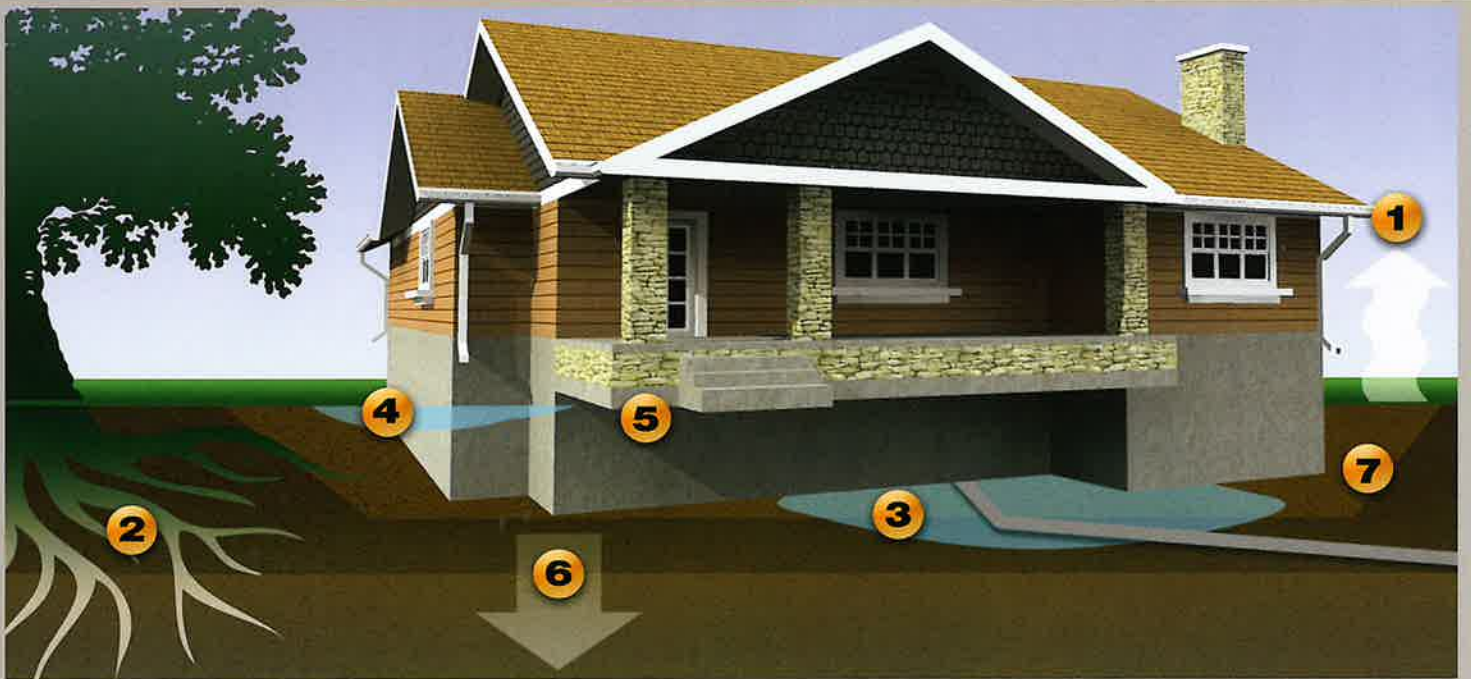
The DynaPier® system was designed to be the strongest foundation pier in the industry by combining steel and high strength concrete. It is installed centrally beneath the footing rather than outside of the footing, thus transferring the structural load directly on top of the pier. The DynaPier® will achieve the greatest depth while installed in a position to provide the greatest support. **No other piercing system can make these claims.**

The patented DynaPier® is comprised of high-strength concrete that is pre-cast in a steel sleeve which provides superior shear strength and compressive resistance as proven by independent testing labs. The outer steel casing is filled with a concrete core, and cured for maximum strength. The DynaPier® segments are hydraulically driven into the ground one at a time. After one DynaPier® segment is driven, another segment is connected to the pier, and the process is repeated until the foundation pier hits bedrock or a dense strata of subsurface material. A temporary platform is attached to the pier so that the structure can be lifted. Once the desired lift is achieved the pier is extended up to the footing and the pier cap is attached to the pier.

- **The pier is located centrally and directly beneath the foundation footing.**
- **ALL parts are connected to form a monolithic pier.**
- **ALL shims are contained within the pier cap.**
- **Installation does not require removal or breaking of the footing; footing remains completely intact.**

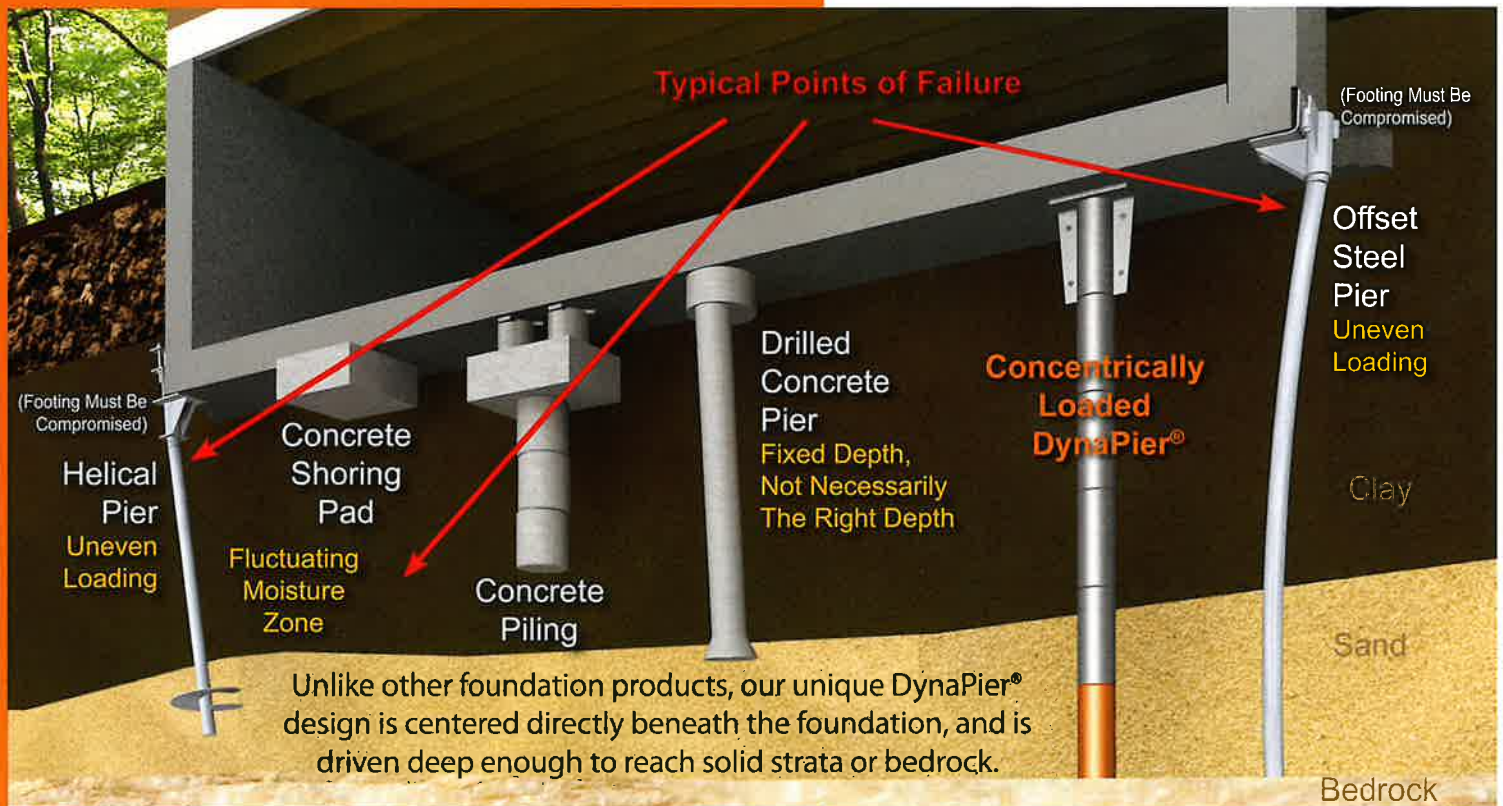
The result is a foundation that far exceeds the home's original structural integrity, making your foundation better than new.

Causes Of Foundation Problems



- 1. Evaporation:** Hot dry wind and intense heat will often cause the soil to shrink beneath the foundation. This settlement may cause cracks to appear throughout the structure.
- 2. Transpiration:** Tree roots may desiccate the soil beneath a home causing the soil to shrink and the home to settle.
- 3. Plumbing Leaks:** Water from plumbing leaks is often a cause of foundation problems.
- 4. Drainage:** Improper drainage is one of the leading causes of foundation failure. Excess moisture will erode or consolidate soils and cause settlement.
- 5. Inferior Foundation Construction:** Insufficient steel and inferior concrete will contribute to movement in the slab.
- 6. Inferior Ground Preparation:** Soft, low density soils and/or improperly compacted soil beneath a home is the leading cause of foundation failure. Cut and fill methods are a leading cause of foundation settlement.
- 7. Poor Soil Conditions:** Poor soil and its expansion and/or contraction contribute to foundation failure.

Why DynaPier® Is Best



What Experts Say About The DynaPier®

Norton & Schmidt

Consulting Engineers, LLC
Established 1967
Kansas City • Atlanta

December 7, 2007

DynaPier, LLC
4220 Main St
Grandview, MO 64030

TO WHOM IT MAY CONCERN

I have evaluated this firm's pier installation materials and method, and observed its use in raising a house foundation.

Because its design incorporates concentric loading of the pier during installation and support of the foundation, and is filled with a concrete mix that tests in excess of 3500 p.s.i., it has the capacity to punch through rock floaters to solid bearing without being turned away from the vertical position.

This is not the case with the conventional eccentrically loaded pier, and as a result they fail from buckling and turning by floaters as they are driven to solid bearing.

Yours truly,

Willard S. Norton

Willard S. Norton, P.E.
Partner

WSN/rj



311 E. 11th Avenue • North Kansas City, MO 64116 • (816)

Willard Norton is a founding partner of Norton & Schmidt, a respected engineering and consulting firm that provides design and inspection services for new construction, existing building renovation and restoration, parking garage restoration, general consulting, residential consulting and expert testimony.

DynaPier®

DynaPier, LLC
13902 Norby Rd
Grandview, MO 64030
toll free: 844-456-3962

Foundation Engineering Specialists LLC

FES

This is written to certify that I, Don R. Carter a licensed engineering in the state of Missouri, did prepare test methodology and witness field testing for The DynaPier™ System, a patent pending foundation repair product. The following conditions apply:

- Test product was selected by the undersigned from DynaPier's stock inventory.
- Product was installed with daily-use, dealer equipment and installation crew.
- Dynapier was driven to a depth at which gage readings showed it was resisting twice the design load, or 33,600#. Load was removed, then a dial indicator and optical level were placed to define the deflection datum point.
- Load was increased incrementally from design load to design +5% (takeup), design +24%, design +49% and finally design +64%. Corresponding deflections were measured from the datum and the attached load deflection curve established.
- Load was then increased to the limit of hydraulic equipment, at which point the pier sustained a load of 40,255# or 2.4 times design.
- There is every reason to believe the pier would carry loads in excess of this as we observed no strain or visible distress in the product.

It is my professional opinion that the DynaPier System has proven capacity to meet foundation repair duty for which it is being marketed, with a safety factor of 2. We may never be able to quantify a load limit for this pier because it is concentrically loaded, uses short segments and has concrete filled tubes, greatly reducing the potential for buckling or bending failure.

Signed and sealed this 16th day of August, 2008



Don R. Carter PE
Managing General Partner

 National Society of
Professional Engineers
www.fdnengineering.com

913-685-1434
913-709-8623

Don Carter is an experienced and highly respected consulting engineer specializing in foundation design and performance. After testing the DynaPier® System, Don Carter said,
"We may never be able to quantify a load limit for this pier because it is concentrically loaded, uses short segments, and has concrete filled tubes, greatly reducing the potential for buckling or bending failure."

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www.TheDynaPier.com

ELITE CRETE™

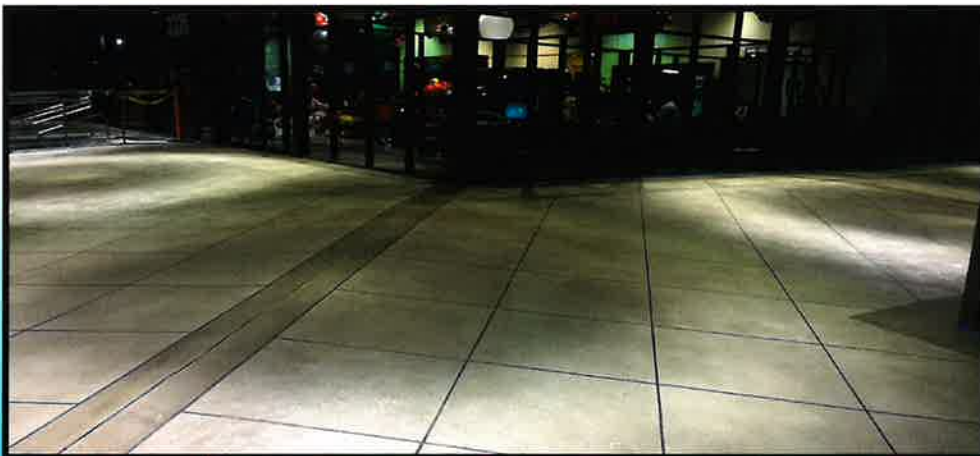
THIN FINISH CONCRETE FLOOR & WALL OVERLAYS

Basement Technologies
The Basement Specialists™
Structural/Remodeling Division

Interior/Exterior Floor & Wall "Thin Finish"

Finish your floor with a design color of your choice. This unique advanced floor and wall system is unique utilizing your choice of colors and designs. This system can be used on any concrete surface.

- Walls or floors
- Economical
- Fast
- Designer Finishes
- Goes right over existing concrete



**Why
remove old
slabs to get
a designer
finish?**

**Thin Finish: we offer
9 designs to choose from**

**Upper End Thin Finish
(hand finish and trowel done)**



Economical Finishes



1-800-BUSY DOG®



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POOL DECK, DRIVEWAY AND PATIO COATINGS

Pool Deck Coatings are polymer modified to act as surface repair or an aesthetic finish that can be applied to new or existing concrete surfaces. The coating is actually stronger than concrete and can withstand vehicular traffic and harsh temperatures (extreme hot or cold).

- Virtually unlimited designs, patterns, textures and color options
- Non-slip, even when wet
- Can create the authentic look and feel of any stone, brick, tile, wood and even just plain new concrete
- Available in any color combination to match surrounding design
- Cost effective compared to: full depth stamped concrete, pavers brick, real stone or integrally colored concrete
- Extreme durability for high traffic areas
- Very low maintenance
- Highly resistant to deicing salts, freeze/thaw climates, extreme heat wet conditions and UV rays
- Quick installation time
- Can be installed pre- or post-construction
- For new or existing concrete surfaces



Digital catalog of finishes available.
See elitecrete.com

1-800-BUSY DOG®



THE FIELDSTONE WALL CONDUIT®

THE MOST INNOVATIVE SOLUTION FOR YOUR
FIELDSTONE WALLS

1-800-Busy Dog®
Basement
Technologies
The Basement Specialists™
Basement Waterproofing

Homeowners may consider tearing out their fieldstone walls and replacing them with more conventional walls due to frustrations associated with water, mold, dirt, odors, pests and rodents. In older homes, it was common to dig out the basement and install stone walls. Older homes offer old world charm and craftsmanship along with a high market evaluation. A fieldstone wall basement is usually unsightly, wet, damp and moldy. It makes little economic sense to redo the foundation. Fieldstone walls have joints and cracks where the mortar (concrete) was installed to join the stones. Water, air, rodents and insects can get in through these cracks. 1-800-Busy Dog Basement Technologies® Fieldstone Wall Conduit® solves the problem permanently and cost effectively. Our solution seals all the problems out and effectively creates a new



Before

living space, free of insects, dirt, rodents and water. The Fieldstone Wall Conduit® is ideally used in conjunction with a full perimeter Water Trek Aqua Route® system.



After

The Most Cost Effective Solution...

www.1800busydog.com®



Finish White®

Basement Waterproofing Wall Panels

Authorized Dealer
Basement Technologies
The Basement Specialists™
Basement Waterproofing

Finish and waterproof your basement walls in one step.

The Finish White® panel system transforms your unfinished basement into a finished room and waterproofs the walls at the same time. The huge expense of complete remodeling is now eliminated. You can add a significant amount of living area to your home for a fraction of the cost.

Basement Technologies® Finish White® is the perfect finishing touch to your newly dry basement. It keeps your basement walls dry and looking beautiful. Washable, attractive, permanent and very cost effective – Finish White® is the economical choice for your basement walls.

Basement Technologies® Finish White® attaches directly to your poured or brick foundation walls and is best used in conjunction with a full perimeter Water Trek Aqua Route® system.



BEFORE

Cut finishing costs and waterproof at the same time!



AFTER



Finish White® Panels attach directly to your basement walls.

Custom Tailored Waterproofing.®

Improving Basement Waterproofing From The Ground Up™



Hot Floor™

Insulated Flooring System

Authorized Dealer
Basement Technologies
The Basement Specialists™
Basement Waterproofing

Makes your basement feel like part of your upper home ...
cozy and comfortable.

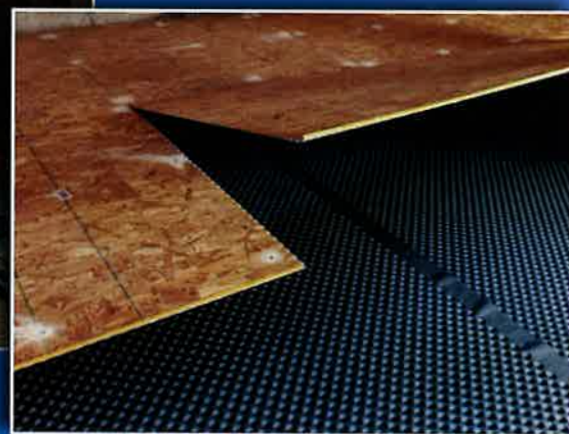
The Hot Floor™ is a specially insulated, padded barrier installed on top of your concrete basement floor, under the plywood and flooring. It is unique in that it actually gives you the warmth and comfortable feeling of a "hot floor", similar to the top floor of your home.

Headroom height loss is kept to 3/4" to 1", as opposed to the more costly "sleeper" systems (2x4's, plywood and insulation) causing as much as 3" to 5" loss of headroom.

Finish your largest usable area with Basement Technologies' Hot Floor™ insulated flooring system. Make your basement feel like a 2nd floor! A true cost effective improvement to remodeling your basement. Basement Technologies' Hot Floor™ is best used in conjunction with a full perimeter Water Trek Aqua Route® system.



The Hot Floor™ adds an insulated pocket under the floor keeping condensation and dampness out of your carpet. It is the perfect complement to your newly dry basement and new living or storage space.



Custom Tailored Waterproofing.®

Improving Basement Waterproofing From The Ground Up™



HYDRO-CRETE

2-PART DAMP PROOFING EPOXY COATING

The "Final Touch" in an unfinished area.

Stopping major basement water infiltration is a job for a specialist. The Water Trek Aqua Route® is usually the system for most problem basements. For years, dampness that appears on concrete that appears wet or damp creates an illusion of a "wet basement" and has been a focal point to fix. The Busy Dog® Hydro-Crete™ Sealer makes the concrete surface sealed, aesthetically pleasing and is a great "add on" for your water-proofed basement.

Coatings/epoxys and sealants are never a cure for a flooded basement.

2-PART DAMP PROOFING EPOXY COATING

1-800-BUSYDOG BT Hydro-Crete™ Sealer is a high strength, hydrophobic, breathing-type, two-component, modified epoxy coating manufactured from a balanced ratio of fillers and water extended resins and hardeners. Our exclusive formula combines flexibility with the hardness of epoxy resins.

During the curing phase, 1-800-BUSYDOG BT Hydro-Crete™ Sealer polymers cross-link to create a macromolecule of extreme durability to provide optimum resistance, severe below grade hydrostatic pressure, and other environmental conditions.



Damp proof treatment for concrete slabs.

The 1-800-BUSYDOG BT Hydro-Crete™ Sealer mixture penetrates deep into the surface capillaries, that when totally cross-linked, serve as a water insoluble lining on the sidewalls of the pores and voids in the substrate (making them water repellent). This lining robs the water of its capillary action-preventing moisture from entering through the masonry. A second coat, bonded to the previous coat, builds up sufficient density, cohesion and strength to render the surface pinhole free and impervious to

mass water penetration. On extremely porous surfaces, a third coat may be needed to touch up areas where porosity can still be seen. The Hydro-Crete™ should always be used in conjunction with our Water Trek system, creating an impenetrable combination.

1-800-BUSYDOG BT Hydro-Crete™ Sealer forms a positive, high quality, integral protective barrier against mass water penetration and is warranted if used with our Water Trek system. When minimum down time, high pressure resistance, coating strength and longevity are major factors in choosing coating suitability, BT Hydro-Crete™ Sealer can be specified for use on all types of damp interior or exterior, above or below grade, masonry surfaces including concrete, brick, various types of masonry block, mortar, stucco, adobe, cast-stone or sandstone.

1-800-BUSY DOG®



1-800-BUSYDOG BT Hydro-Crete™ Sealer:
Quality damp proofing protection for about the same cost of high-grade paint. Concrete and cement block are porous and can't stand up to the elements alone. The corrosive action of water passing through masonry literally eats away at these surfaces causing breakdown and seepage.

1-800-BUSYDOG BT Hydro-Crete™ Sealer actually penetrates masonry surfaces above and below grade for maximum protection.

No other concrete sealant works quite like 1-800-BUSYDOG BT Hydro-Crete™ Sealer. Unlike conventional sealers, 1-800-BUSYDOG BT Hydro-Crete™ Sealer penetrates the pores of the surface and cures for an unmatched bond, forming a permanent, reliable layer of protection that water cannot pass through. Should be used with the Water Trek system.

1-800-BUSYDOG BT Hydro-Crete™ Sealer resists peeling, blistering or flaking due to moisture, and because BT Hydro-Crete™ Sealer is an epoxy resin formula, it has excellent freeze/thaw durability, superior adhesion and high chemical resistance.

1-800-BUSYDOG BT Hydro-Crete™ Sealer blocks out the elements yet it allows concrete surfaces to breathe. Residual water vapor escapes before damage can occur inside the concrete. Tested up to 40 PSI (see Fed. Spec. TT-P-001411) with no visible seepage.

1-800-BUSYDOG BT Hydro-Crete™ Sealer is also a safe, solvent-free material that is easy to apply. Apply BT Hydro-Crete™ Sealer with brushes, rollers or airless spray gun. This zero VOC product requires no special precautions.

1-800-BUSYDOG BT Hydro-Crete™ Sealer is non-toxic and odor free. Clean up with warm soapy water.



Interior masonry coating spray applied.



Concrete slab protection used with Water Trek system.



Sealed basement walls used with Water Trek system on floor.

1-800-BUSY DOG®



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Mud-Jacking

**1-800-Busy Dog
Basement
Technologies**



**The Basement Specialists™
Basement Waterproofing**

Is Your Concrete Sinking?

Solutions for floors, patios, stoops and more!

Does your concrete slab or basement floor have problem areas where sunken concrete has caused uneven surfaces and cracks to form? What about the patio, driveway, and sidewalk or walkways around the rest of the property? These conditions are usually associated with shifting, erosion, and a weak soil base. Fortunately there is a simple solution.



4 Ways Concrete Lifting is used to Repair Concrete

- Concrete slab repair
- Concrete porch repair
- Concrete floor leveling
- Repair cracked concrete floors



1-800-BUSY DOG®



**Mud-jacking, slab-jacking,
grout injection... concrete lifting?**

**1-800-Busy Dog
Basement
Technologies**
The Basement Specialists™
Basement Waterproofing



Call it mud-jacking, slab-jacking, grout injection or simply concrete lifting – they are one in the same. Whatever the case, the process entails drilling small holes through the concrete of affected areas and pumping cement grout underneath. As the mixture flows beneath the surface, voids and depressions are filled and the concrete is raised to the desired height.

New England's #1 Concrete Repair Company

We've been repairing concrete throughout New England for over 30 years. Since 1984 to date, we've been fortunate enough to acquire hundreds of thousands of happy customers. Whether you're a homeowner, commercial property owner, general contractor, engineer or architect – Basement Technologies is the best concrete repair company to address your needs. Contact us today for a free inspection, evaluation and repair estimate.

How Mud-Jacking Works

Basement Technologies uses a three-step lifting and leveling process to restore your sunken concrete back to its original level. Almost any lift can usually be completed in just one day without having to remove any structures (such as detached garages, sheds or fences) that sit on the slab. Backyards and other remote locations on a property can usually be easily accessed with our equipment so there is little or no disturbance to your landscaping.

How it Works:

Step 1: We drill holes into the concrete slab that is in need of restoration.

Step 2: Grout is carefully injected through these holes in the concrete slab to fill any voids between the slab and the ground surface. As the grout fills the area beneath the slab, the slab begins to slowly rise back to the desired level. Grout continues to be added underneath the slab until the entire slab reaches the full height.

We ensure that the proper slope is made to direct water away from the foundation. Establishing this proper surface grade also helps to prevent water from migrating underneath the slab and creating additional freezing and thawing conditions which may cause future settlement issues.

Step 3: Our team will patch the surface of the slab where the holes were drilled to give your slab a smooth uniform finish.

Sunken concrete driveways, sloped sidewalks and settled garages have all been recipients of new life from our concrete restoration process. We are so confident in our concrete service that we provide a full two year warranty.

1-800-BUSY DOG®



Basement Technologies[®] presents PaviX[®] CCC100

**1-800-Busy Dog
Basement
Technologies**
The Basement Specialists™
Basement Waterproofing

Exterior Waterproofing Without Digging

Waterproofing exterior special structures calls for special products. Parking garages, tunnels, pools and bridges are special structures.

PAVIX[®] CCC100 is a unique, water-based chemical product for moisture protection of large-scale concrete substrates against temperature and water associated problems such as thermal cracking, damage caused by repeated freeze and thaw cycles, chloride ion penetration, as well as alkali silica reactions.

PAVIX[®] CCC100 keeps treated concrete reasonably dry, thus helping eliminate most water and moisture associated problems by providing three effective mechanisms for concrete protection in all weather conditions — formation of two types of crystals and water repellency. In the presence of moisture, one type of crystal present in the product swells, blocking pores completely. The second type of crystal absorbs the extra moisture on the surface of the crystal preventing surface moisture on that crystal from diffusion to the concrete. These hydrophilic and hygroscopic properties provide double and durable protection against moisture penetration in concrete.

Advantages and Benefits:

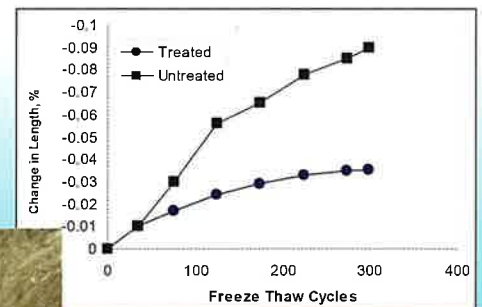
- Provides long-lasting internal waterproofing and moisture blocking from positive and negative sides
- Excellent repelling property preventing water, jet fuel and oil penetration intrusion from the surface
- Resists aggressive chemicals such as acids, caustics, jet fuels and oil
- Protects reinforcing steel bars against corrosion without any negative effect on steel cathodic protection
- Enhances the adhesion property of joint sealant and concrete road markers
- Reduces alkali silica reactions (ASR), and eliminates silicate dusting
- Prevents penetration of chloride ions from de-icing salts
- Eliminates damage caused by repeated freezing and thawing
- Prevents concrete scaling
- Increases concrete hardness
- Seals and protects cracks up to 1/16th inch (1.5 mm)

Fields of Application:

- Airport runways
- Airport taxiways
- Aircraft parking
- Bridges
- Tunnels
- Concrete roads
- Parking lots
- Buildings
- Sea Ports
- Walkways



Concrete wall before, during and after PaviX treatment



Freezing and thawing effect on treated and untreated samples



Basement Technologies® presents SOFIX® CCC700

**1-800-Busy Dog
Basement
Technologies**
The Basement Specialists™
Basement Waterproofing

Interior Waterproofing Without Digging

Waterproofing exterior special structures calls for special products. Parking garages, tunnels, pools and bridges are special structures.

SOFIX® CCC700 is a unique, colorless, odorless, clear, one-of-a-kind, water-based crystallization product that penetrates deep into concrete, specifically designed to permanently block moisture and vapor transmission. Application of the SOFIX® CCC700 system blocks moisture and vapor movement through concrete and masonry substrates within 24 hours and can be easily applied by spraying or rolling to concrete substrates that are 7 days or older. The SOFIX® CCC700 is formulated to enhance deep penetration into the concrete substrate through capillary action. The product components migrate deep into the concrete substrate to form hygroscopic and hydrophilic crystalline material which permanently blocks the concrete and masonry substrate pores. Even under the influence of constant hydrostatic pressure, the crystallization continues to fill and block the migration of moisture through the concrete substrate and continues while moisture is present. The product becomes inactive during dry conditions and is fully reactivated when moisture or moisture vapor are present. The unique "reactivation" is key in providing permanent waterproofing protection for any concrete or masonry substrate. The product protects, preserves and waterproofs without any surface film formation or color change.

Product features:

- High moisture, vapor blocking performance
- Single component
- Easy application
- Penetrates concrete sealing voids, capillaries and cracks up to 1/16th inch
- Multiple functions: blocking of moisture and increases the adhesion of coatings and paints
- Non-toxic
- Cost effective
- Resist hydrostatic pressure
- Internal and external application
- Treatable materials: concrete, concrete block, mortar, plaster, stucco, terrazzo, exposed aggregate and any sand, aggregate cement combination



**Magnification
of PavIX/Sofix
crystals that
block moisture
transmission**

Fields of application:

- Concrete floors
- Foundations and slabs
- Reservoirs
- Industrial plants
- Swimming pools
- Subway tunnels
- Elevator pits
- Walls and flooring in parking garages



Elevator pit flooded by ground water seepage



Elevator pit after Sofix® 700 and CCC 150 treatment

