



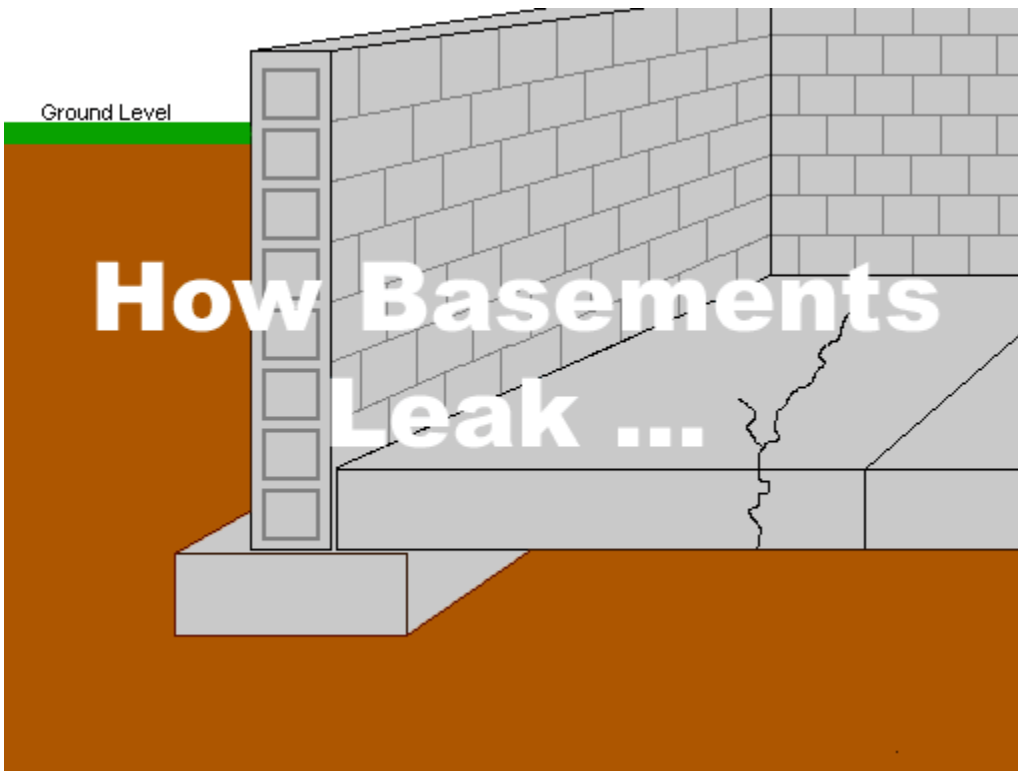
www.Sanitred.com

A 100% waterproof basement is possible with SANI-TRED |

We Keep The Water Out!

Sealing a basement from the inside requires that the sealant product must be able to retain “negative hydrostatic pressure”. Negative hydrostatic pressure is water pressure that passes through the substrate and presses on the back side of the coating. Constant hydrostatic pressure from the side walls or from beneath the footing and floor will never detach Sani-Tred products. They will not peel, blister, chip, delaminate, or detach from concrete, concrete block, mortar, stone or wood even in the constant presence of negative hydrostatic water pressure on a “raw edge” (the starting or stopping point of the coating.) Sani-Tred is the only complete basement or foundation sealing system in the world with the ability to retain “negative hydrostatic pressure”.

For detailed instructions on installing Sani-Tred, [click here](#).



How & Why Sani-Tred Products Permanently Retain Negative Hydrostatic Pressure

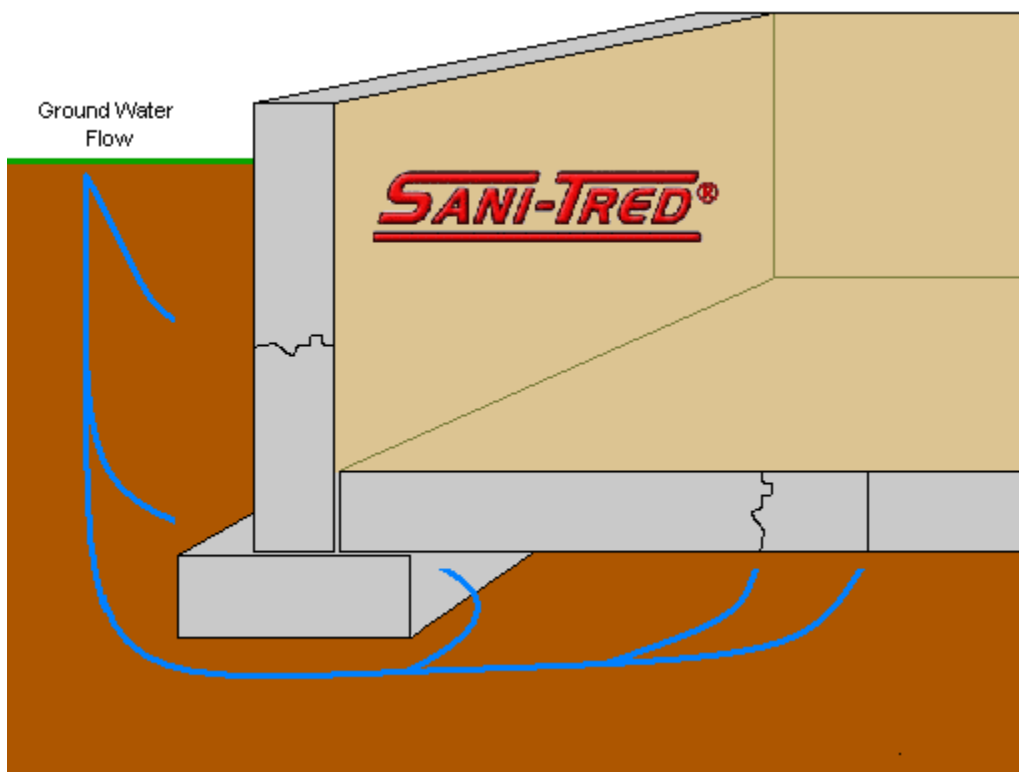
Three unique properties allow Sani-Tred products to retain negative hydrostatic pressure unlike any other products in the world; **Flexible Penetration Technology®**, **Elongation Memory Technology®** and **Permanent Flexibility®**.

Sani-Tred Permaflex®, (liquid rubber primer and top coating), penetrates deeply into the pores of the substrate, (foundation building material), and produces tiny solid rubber sealing plugs due to Flexible Penetration Technology® . These tiny plugs or sealing tentacles penetrate deeply into each and every pore or small crack in the substrate and holds back and retains ground water pressure before it has a chance to reach the Sani-Tred coating surface to push it off, *en masse*, as with other types of coatings. These sealing tentacles work like tiny, high pressure, hydraulic o-rings and one of the main qualities that allows Sani-Tred to hold back great pressure without failure!

Elongation Memory Technology® ensures that when Sani-Tred products are compressed and relaxed, they maintain their original shape and size preventing distortion of their original shape and size which is a major cause of release of coatings from powerful forces such as freeze/thaw cycles, water or gas pressure, vibration and sudden shock.

Permanent Flexibility® provides that Sani-Tred products never harden or become brittle; they maintain flexibility and only become stronger with age without breaking down as other coatings do. Sani-Tred Permaflex deep penetrates and strengthens weak concrete or mortar joints which prevent detachment from these types of weak substrates as other coatings are known to do.

Sani-Tred Products Have No Equal and Must Contend with Obsolete Testing and Measurement Criteria



Pressure or vacuum testing procedures for materials often used for negative hydrostatic waterproofing in the past are designed for cement based materials and actually allow steady leaking to actually “pass testing” as a “negative waterproofing” product.

The Sani-Tred system is so advanced that standard ASTM testing procedures are unfit to compare Sani-Tred with other obsolete products commonly used for “negative waterproofing”. Standard ASTM testing for negative hydrostatic pressure allows for a rapid drop in pressure or vacuum, (leaking), over a short period of minutes of time and is designed to allow cement based waterproofing materials to “pass” as a “negative waterproofing material” even though they always leak.

During the same testing of Sani-Tred products there is virtually no leaking of pressure or vacuum over days or weeks of pressure testing, yet a cement based material that leaks like a sieve will have the same passing grade of an ASTM test as Sani-Tred with zero leaks!

Common sense dictates that a waterproofing product should provide zero leaking to be considered suitable as a negative waterproofing product.

LRB/TAV mixture molecularly welds to the Permaflex to act as reinforcement to seal large cracks, joints, holes, etc. These are some of the unique characteristics that give Sani-Tred the ability to retain “negative hydrostatic pressure”, moisture vapor drive, and radon gas at greater pressure than any other products in the world.

The photos below show a concrete patio block that was laid horizontally and coated on one side with Sani-Tred PermaFlex. The PermaFlex was reduced with Xylene (solvent) to allow quicker and deeper penetration. Once this coat was completely saturated, more was applied, and repeated. The PermaFlex was tinted red to allow better visual detection of the Sani-Tred microscopic penetration process of Flexible Penetration Technology®. The block was then broken in half to show its internal cross section. Notice the penetration of the red PermaFlex throughout the entire block.

Water Pressure Vs Depth |

SANI-TRED is about 60 times stronger than it needs to be!

To understand how strong the Sani-Tred system actually is you must know the maximum water pressure, (psi.), your basement walls and floors could possibly be exposed to under the most realistic extreme conditions.

The Floor of An Average Residential Basement, with a Window, Would Be About 6' Below Outdoor

Depth of Water Column Vertical Feet	Water Pressure lbs. per sq. in.
1	0.45
2	0.91
3	1.36
4	1.82
5	2.27
6	2.73
7	3.18
8	3.64
9	4.09
10	4.55

Ground Level.

EXAMPLE: Worst Case Scenario; let's say that the ground around your basement is totally saturated with water. This would be almost the same situation as if your basement were submerged in a large tank of water all the way to ground level up to the windows! Using the standard formula for pressure and depth (*Pressure equals depth times 15 divided by 33*). Examine the chart above: You see, the average basement wall or floor could have only 2.73 psi. Pressure maximum! Sani-Tred independent lab testing has rated our 1/16" thick system capable of withstanding 10 psi. This means that theoretically our standard 1" LRB/TAV basement sealing bead should withstand a maximum of 160 psi!

In actual field installations the system has withstood measured hydrostatic and/or vapor pressures of up to 40 psi without failure!

This means the standard Sani-Tred basement or foundation sealing system is approximately 60 times stronger than required to seal the worst basement under the worst possible conditions such as a basement with large cracks, holes or joints.

We have demonstrated above that the worst ground water pressure or "negative hydrostatic pressure" forces on your basement are not high pressure but it is a constant force which is continuously trying to push coatings from the surface of concrete. Don't you want the strongest toughest and most durable products available on your basement walls and floors?

Sani-Tred products have passed over 20 years of field testing and research in underground water vessels such as basements, deep cisterns, elevator pits, swimming pools, and manholes. This field testing and research is coupled with a rigorous independent testing regimen designed by "The American Society of Testing and Materials, or (ASTM). These independent tests have proven that Sani-Tred products exceed the minimum requirements for negative pressure retention by many times over!

Understanding the Relationship of Pressure and Coating Surface Area

The more the tiny, Permaflex flexible, rubber tentacles are compressed by ground water pressure the greater the seal! It's a mechanical fact that the smaller the diameter of a tube, pipe, hose etc, the greater the pressure force it may retain.

Example: a specific length of seamless copper tubing 1/8" in diameter with a wall thickness of .065" is rated to handle up to 3,675 pounds per square inch of pressure, (psi). On the other hand, the exact same length of copper tubing with a much larger diameter of 2" with the exact same .065" wall thickness is rated to handle only 299 (psi) explained by the formula illustrated below. Ref: "American Society of Mechanical Engineers" Code for Pressure Piping (ASME B31)

- WHERE: P = allowable pressure, psi
- S = maximum allowable stress in tension, psi
- t_{min} = wall thickness (minimum), in.
- D_{max} = outside diameter, in.
- C = a constant

$$P = \frac{2S(t_{\min} - C)}{D_{\max} - 0.8(t_{\min} - C)}$$

This example may help you to understand the negative waterproofing significance of Sani-Tred products. This should also illustrate why it is necessary to reinforce large cracks, holes, and joints with our "adhesive rubber caulk" known as LRB and TAV mixture to work with the pressure retention abilities of the Permaflex primer which handles the small or microscopic levels of sealing and adhesive bonding to the substrate. NEVER USE CEMENT BASED PATCHING MATERIALS! The Sani-Tred basement waterproofing system relies upon the application of LRB and TAV mixture to reinforce Permaflex in large holes, cracks, joints and other such larger potential and visible leaking areas allowing Permaflex to handle the tiny microscopic leaking areas.

Sani-Tred Permaflex obviously cannot penetrate materials such as native stone, fired brick, ceramic tile, steel, glass or other such non-porous materials but does penetrate and seal all mortar joints to produce a negative hydrostatic seal. This is especially important when these types of non-porous building materials are incorporated in a concrete or mortar jointed foundation wall such as iron pipe through a poured concrete wall or a stone foundation. The use of Sani-Tred Permaflex primer with LRB and TAV mixture effectively seals these normally difficult to waterproof surface areas.

Most exterior sealing methods are of little value in preventing water from entering the basement as you can see by studying the basement cut-away sketches. Concrete walls can't be damaged merely from direct contact with ground water. Only if water can flow through concrete is water detrimental

to the structural strength of non reinforced concrete. Therefore, exterior concrete walls will not be damaged by mere contact with ground water and don't require waterproofing.

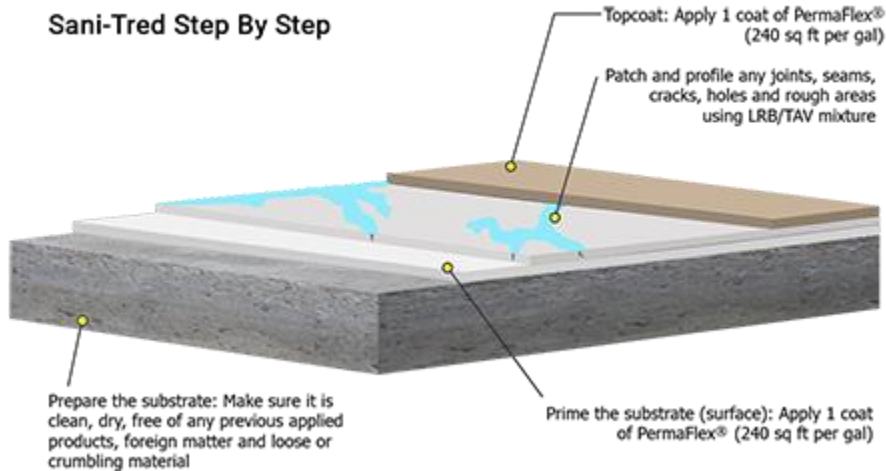
Longevity of Sani-Tred Basement Waterproofing

Sani-Tred's custom designed polyurethane molecules or artificial rubber is among the most complex molecules known to man. This is what allows the flexible nature of the material and provides Sani-Tred's remarkable durability. Since the early invention of the automobile there has been an effort to find a good way to dispose of old tires. Old worn-out tires have been directly buried in the earth for over 100 years, unearthed, only to discover that they were in as good condition as when originally buried!

By these observations scientists have determined that the best possible environment to keep and maintain rubber products, both natural and artificial, is to keep them in a damp environment in the absence of UV exposure. Under these conditions it has been determined that natural or artificial rubber will last virtually forever without breakdown or deterioration. These are virtually the same conditions found inside a concrete basement wall. This is one of the many reasons we can so confidently make the statement "permanently waterproof your basement" and you can have confidence in our lifetime warranty.

The oldest Sani-Tred installation, an outdoor commercial floor surface, is over 21 years old, in a heavy foot and light vehicle traffic UV exposure, environment with no signs of breakdown or substantial wear.

Step by Step Basement Waterproofing:



The following steps will show you How to Waterproof a Basement with SANI-TRED®.

Products Needed for a basement waterproofing system: PermaFlex®, LRB (Liquid Rubber Base) and TAV (Thickening Activator)

Step 1: Prepare

"Prepare" the substrate (surface): Make sure it is clean, dry, free of any previous applied products, foreign matter and loose or crumbling material.



Step 2: Prime

"Prime" the substrate (surface): Apply 1 coat of PermaFlex® (240 sq ft per gal). Concrete block surfaces need 2 prime coats of PermaFlex® basement waterproofing products because it is more porous than standard poured concrete. The first coat of PermaFlex® penetrates deep to permanently lock and seal within the pores of the concrete. The second coat begins filling the pores, pock holes & pin holes near the surface. PermaFlex® basement waterproofing products permanently adheres to concrete.



Step 3: Patch

"Patch" and profile any joints, seams, cracks, holes and rough areas using LRB/TAV mixture. 2-parts LRB (**Liquid Rubber Base**) is mixed with 1-part TAV (**Thickening Activator**) to create a thick caulk-like mixture. A 1" diameter caulk bead of LRB/TAV mixture is applied where the wall meets the floor. Most cracks use a 3/4" diameter caulk bead. LRB/TAV "**Round Caulk Bead Chart**"



Step 4: Topcoat

"Topcoat": Apply 1 coat of **PermaFlex®** (240 sq ft per gal).



Sani-Tred Warranty

Limited Lifetime of the Structure

Products to be warranted: SANI-TRED PermaFlex, LRB, and TAV

1. We warranty that our SANI-TRED products **will not harden, crack, peel, chip, separate or delaminate** from its properly installed, original applied, vertical or horizontal building material, interior or exterior surface, as well as completely waterproof these substrates including; concrete waste water containment and treatment tanks of any size, properly etched or sand blasted steel, cast iron, fiberglass, cement board, and drywall, for the life of the structure. This SANI-TRED product warranty covers and includes the normal routine cleaning procedure of high pressure washing of up to 3,000 P.S.I. with hot water and normal cleaning soap/ and non-chlorinated disinfectant products of up to 180 degrees F. in temperature, and/or installation within perpetual water, sewage and/or sewage containment.
2. Incredible Products LLC. warrants SANI-TRED products will be free from defects under normal conditions, and will perform without fail for at least the life of the structure as outlined within this warranty. Labor costs for removal or reinstallation of material is not covered under the SANI-TRED product warranty and is limited to original volume of materials or repair portion of replacement products, at the choice of Incredible Products LLC. (excluding, shipping, taxes and/or tariffs).

SANI-TRED PRODUCT WARRANTY CONDITIONS

This warranty applies to the material at its original place of installation. The warranty will be void if the materials are installed in violation of applicable local codes or ordinances, or if installed in a particular application situation not normally intended, experienced or recommended for product use.

WARRANTY EXCLUSIONS

1. All commercial and industrial installations of any kind are limited to their own warranties designed for each particular installation.
2. Failure to properly apply the proper surface material recommended by the manufacturer Incredible Products LLC. and follow written instructions provided by same.
3. Failure to install materials within their designed limitations of temperature, surface moisture etc.
4. Abuse, alterations, damage due to animal chewing or clawing, cutting, chopping, accident, fire, extreme heat damage, (*over 180 degrees F.*), smoke damage and the like;
5. Failure to properly prepare the substrate surface as per SANI-TRED instructions or advisories, or if products are installed or applied on top of, or mixed with other products not approved within the supplied instructions such as mixing SANI-TRED products with unapproved solvents

or thinners, or applying SANI-TRED products over existing inferior paints or coatings, or otherwise using the products for other than their approved intended use.

6. Materials purchased must be applied within 12 months of receipt.
7. We do not guarantee color match from batch number to batch number.
8. We do not warrant staining or chalking.
9. We do not warrant product damage from natural disasters or acts of god.

HOW TO MAKE A CLAIM

Promptly notify the dealer from whom the materials were purchased, supply type of material, date of purchase, and a description of the problem. The dealer should then contact Incredible Products LLC. If the dealer for any reason is not available, call or write Incredible Products LLC. directly at the address shown below, Attention: "Warranty Service". After notification send small samples and photos freight prepaid, to the nearest SANITRED.distribution location, (which may be the local dealer), a small liquid or dry sample of the suspected defective material for evaluation or analysis, along with several color photographs of the problem area.

Incredible Products LLC. reserves the right at all times to inspect the claimed defective material and verify warranty coverage at its factory laboratory. This warranty shall be limited to replacement to the original customer of all or part of the product as determined by the amount of replacement materials required to repair or replace the defective product. The customer shall be responsible for the remainder of any costs of installation or product price increase over and above the original purchase price.

MISCELLANEOUS WARRANTY INFORMATION

No one is authorized to make any other warranties on our behalf, ANY IMPLIED WARRANTIES, INCLUDING MERCHANTABILITY OR FITNESS FOR A PARTICULAR PURPOSE, SHALL NOT EXTEND BEYOND THE APPLICABLE WARRANTY PERIOD SPECIFIED ABOVE. Incredible Products LLC. SOLE LIABILITY WITH RESPECT TO ANY DEFECT SHALL BE AS SET FORTH IN THIS WARRANTY AND ANY CLAIMS FOR INCIDENTAL OR CONSEQUENTIAL DAMAGES (INCLUDING DAMAGE FROM WATER LEAKAGE) ARE EXCLUDED. Some states do not allow limitations on how long an implied warranty lasts, or for the exclusion of incidental or consequential damages, so the above limitation or exclusion may not apply to you.

We suggest you print this certificate and complete the information form below and retain this warranty certificate in the event this warranty information is needed. Reasonable proof of purchase and/or the effective date of custom Heavy duty warranty must be individually issued presented and/or product batch numbers, otherwise the effective date will be based upon the date of the best perceived batch of manufacture.