

Lifetime™

Waterproofing Sealant System

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Lifetime™ Waterproofing Sealant System

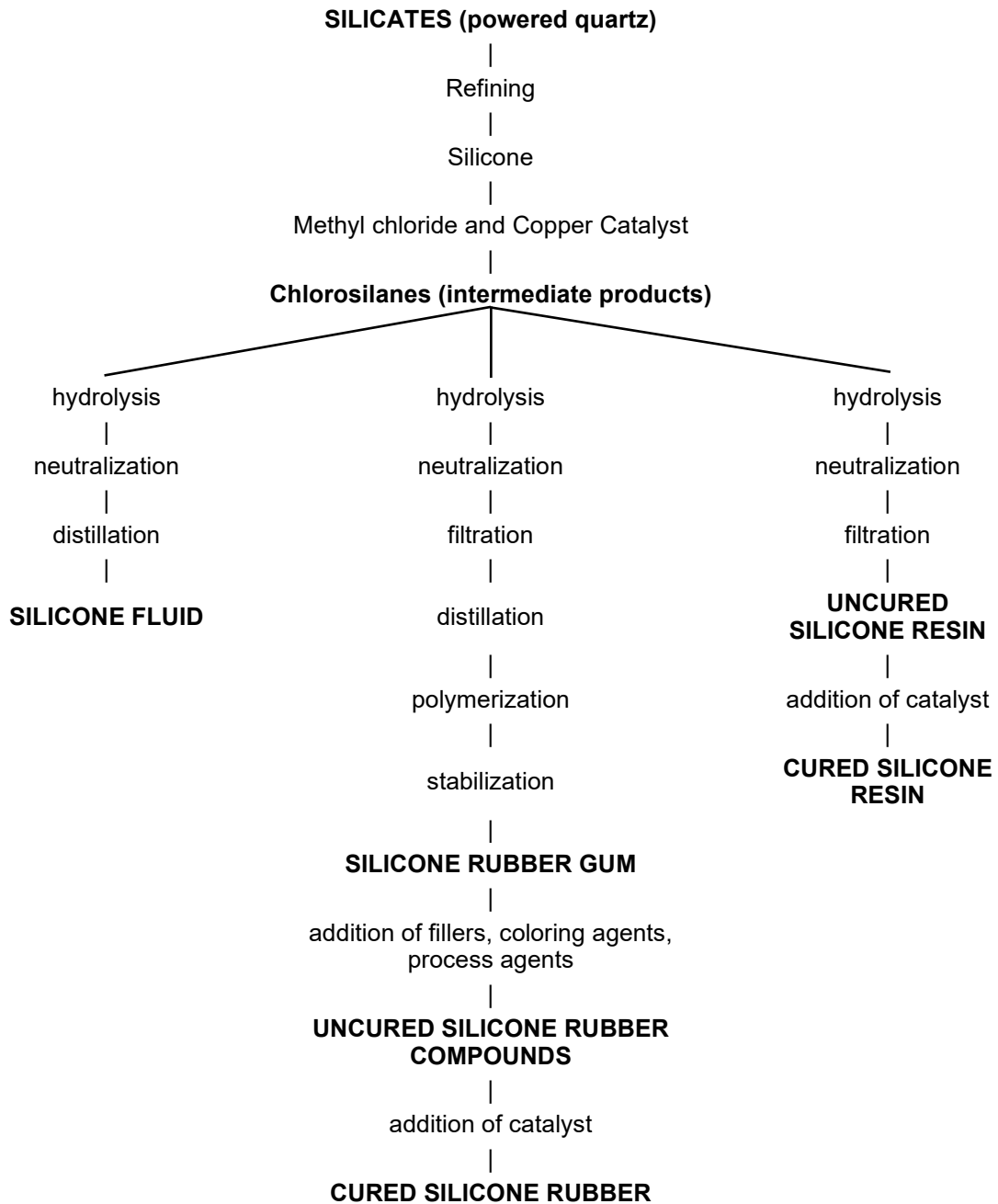
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Ten elements make up approximately 99.3 percent of the Earth's Crust, the Hydrosphere and Atmosphere.

<u>ELEMENT</u>	<u>PERCENT</u>
OXYGEN	49.52
SILICONE	25.75
ALUMINUM	7.51
IRON	4.70
CALCIUM	3.39
SODIUM	2.64
POTASSIUM	2.40
MAGNESIUM	1.94
HYDROGEN	0.88
TITANIUM	0.58

How Silicones are Made



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WHAT IS SILICONE RUBBER?

Silicone Rubber is derived from Inorganic silica (sand). Silicones were developed for commercial use during World War II to meet military applications requiring extreme temperature resistance. Over the years, numerous advances have been made, Improving tensile strength, elongation, tear resistance, etc. Therefore, In addition to its broad temperature resistant properties, silicone rubber now possesses physical values superior to a number of other synthetic polymers.

Silicone functions reliably under many conditions that cause elastomers to fail or deteriorate prematurely. Chemically, silicones are quite different from other rubber like materials, and it is this difference that gives silicone its unique combination of properties. Organic polymers are made up of a backbone of carbon-to-carbon atoms. These are deteriorated easily when subjected to elevated temperatures and the effects of ozone.

By contrast, silicone rubber is made from a backbone of silicone and oxygen atoms. This unique linkage is the same as that found in other high temperature materials such as quartz, glass, etc. As a result, silicone rubber provides outstanding high and low temperature resistant properties as well as general inertness toward many deteriorating effects such as ozone, corona, weathering, ultraviolet, acids, bases, salts, oils, fuels, fluids, food products, etc.

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ADVANTAGES

ADVANTAGES OF LIFETIME™ WATERPROOFING SEALANT SYSTEM

- **TECHNOLOGY -** Lifetime™ is a patented product created by liquefying silicone rubber to a low viscosity. The addition of a solvent to the raw silicone rubber with other processing ingredients liquify it to a state thinner than water.
- **SILICONE RUBBER BASED -** The same general characteristics as the silicone rubber you would buy in the caulking form, liquefying through a Room Temperature Vulcanization (RTV).
- **ONE PART / ONE COAT -** Lifetime™ Waterproofing Sealant does not require mixing of multiple parts. It is applied in one liberal coat to any porous surface that is affected by water penetration.
- **SOLID -** After the application of Lifetime™ Waterproofing Sealant the carrier solvent evaporates to leave the raw silicone product. The RTV rubber then solidifies to a dried Inorganic material.
- **INORGANIC -** In its dried state it cannot be broken down due to water, salts, oils, fuels, acids, or other organic materials. Also, retards effect of ultraviolet rays from the sun which tend to evaporate, dry-up, turn yellow, and make most other types of sealant's brittle.
- **ELASTICITY / ELASTOMERIC -** The cured silicone rubber has an elasticity of over 400%. When stretched or compacted, this product will go back to its original shape. That is what we call elastomeric memory.
- **FLEXIBILITY -** Silicone rubber has a property of being extremely flexible, it will withstand major bending without crimping, breaking, or cracking. This characteristic allows us to use Lifetime™ Waterproofing Sealant on flexing materials such as canvas. (Warranty is not valid for specified time period on flexing materials such as canvas.
- **MOLECULAR MIGRATION -** This term is what our inventor describes as the drawing and puddling effects found in most sealants. Lifetime™ Waterproofing Sealant solved the molecular migration problem and allows even dispersion and consistency throughout its drying process.
- **PERM RATE -** Lifetime's™ silicone rubber properties allow the sealed material to release moisture vapors, while not allowing the penetration of liquid moisture into the material. This is known as the rate of permeance or perm rate. This feature is critical in eliminating the effects of ground moisture or trace moisture within the substrate.
- **ANTI-SETTLING AND SHELF LIFE -** A formula ingredient eliminates the settling of the heavy silicone rubber and assists in prolonging the shelf life of the finished manufactured product.
- **ADHESIVENESS -** The adhesive properties of silicone rubber form a bridge between the particles of the wood, concrete, or canvas. It molecularly bonds itself together to form very large molecules which extend through the substrate and are thereby locked into the substrate. For most substrates, a chemical method of removal of the silicone rubber would destroy the substrate before attacking the rubber.

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- **VOLATILE ORGANIC COMPOUNGS (VOC)** - Various states, countries, and provinces regulate VOCs. Lifetime™ Waterproofing Sealant uses a reducing agent that complies with these regulations.
- **CLEAR COLOR** - Lifetime™ Waterproofing Sealant appears as clear as water. When it is applied and cured, it leaves the natural substrate color virtually unchanged.

SUBSTRATES AND ENVIRONMENTAL HAZARDS

- **WATER** - We can't live without it, and at times it is difficult to live with an abundance of water. Water chooses the path of least resistance, so we build protective resistance to water – dikes, dams, roofs, and raincoats. The point is, we WATERPROOF, which is simply the creation of a barrier whereby passage is prevented.
- **CONCRETE SPALLS, CRACKS AND DISINTEGRATES** - Due to moisture getting into the concrete and the common use of de-icers (salt), concrete reflects its aging process by spalling and cracking. OF course, the first concrete aging sign you may notice is that of nearly black auto oil leaks on concrete driveways. Mother Nature's weather products or rain, snow, and ice constantly penetrate concrete, which eventually take their toll on concrete's appearance and durability.
- **WOOD DETERIORATES** - In many portions of the world, ultraviolet rays, water and highly variable temperatures destroy outside wood products within a few years. Examples are homeowner's roofs, patio decking, fencing, house siding, spa decking, etc. The average shingle roof needs to be replaced every 12-15 years, providing it survives significant hail damage in the meantime. After just one year the shingles lose their symmetry, this is caused by the swelling when wet and shrinking as shingles dry. The shape of the shingles quickly changes, and they start warping. Present day cost for a modest roof replacement is \$7,000 - \$10,000.

So, what's the solution?

Apply Lifetime™ Sealant to minimize these hazards!

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1 PRODUCT USE:

Lifetime™ Waterproofing Sealant has been developed to be used on concrete, masonry, wood, stucco, canvas, and other porous substrates to prevent water penetration and the damage it can cause. Lifetime™ Waterproofing Sealant can be used on horizontal, vertical and wear surfaces.

2 COMPOSITION AND MATERIALS:

Lifetime™ Waterproofing Sealant is a penetrating, permanent waterproofing treatment prepared by using specified silicone rubber. This type of silicone has been tested in actual use in all climates for over 45 years, showing no deterioration from ultraviolet rays, acid rain, salt and salt spray. In cured form this product has been subjected to accelerated weathering and has shown no breakdown at periods exceeding 100 years. In addition, the product contains solvents and other chemicals of a proprietary nature. The product also has penetrating and bonding characteristics that allow an effective one coat application.

3 MAINTENANCE:

Lifetime™ Waterproofing Sealant requires no maintenance; it does not yellow or harden with age.

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4 TECHNICAL DATA:

Specification Writers: The following values are not intended for use in preparing specifications. Complete technical services are available for the manufacturer including assistance during design and specifications stage. Additional product and testing information is also available.

Lifetime™ Sealant is a penetrating silicone rubber material, designed to give a permanent treatment to wood, concrete, masonry and other porous substrates. Lifetime™ unique feature is that it actually prevents water from penetrating the surface to which it is applied.

TECHNICAL TESTS:

A Exterior Exposure:

Samples of the base material have been exposed for 45 years without deterioration from ultraviolet rays, acid rain, salt spray and other climatic conditions, samples have been exposed to weatherometer testing equal to 100 years without breakdown.

NOTE: These tests show that Lifetime™ Waterproofing Sealant will not deteriorate. Certain factors may influence the deterioration of the substrate, beyond the penetration of water.

B Concrete Exposure:

An independent state laboratory* tested the performance of Lifetime™ Waterproofing Sealant against other sealers and bare concrete. The samples were exposed to 378 freeze / thaw cycles and the weight loss determined. Untreated concrete lost 33.7% to 68.1% and Lifetime™ treated concrete lost only 1.2%. The same laboratory conducted skid readings, which stated that "sealed surfaces show and indicate little or no effect on the skid resistance." The product should not make concrete more slippery.

A copy of the "Utah Department of Transportation Research and Development Unit, Laboratory Study to Aid in the Selection Procedures for Concrete Sealers" is available upon request from the manufacturer.

C Penetration and Water Transmission:

Laboratory tests show that the absorption of water on cedar treated with Lifetime™ versus untreated cedar is at the ratio of 24 to 1, or that untreated cedar absorbs 96% more water than cedar with Lifetime™. Tests on pine show a similar improvement. Tests show that the cured material makes a perfect barrier for liquid water, yet allows water vapor to freely move in and out, to maintain a moisture equilibrium with the atmosphere.

D Improves Life Cycle:

All tests show that this material greatly improves the life cycle of wood, concrete and masonry. The State of Utah Department of Transportation concluded that "using concrete sealer on old or new concrete would be economically beneficial by extending the concrete's life by several years." The same applies to wood or masonry.

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E Cured Properties: (Solid State)

Perm Rate ASTM E96-66	7.26
Permanence in contact with liquid water U.S. Perms	4.5
Grains/hr. ft ² in Hg	1.9
ASTM 412:	
Elongation (Std. Dev.=76)	435%
Tensile Strength (Std. Dev.=76)	342 psi
Brittle Point	-73°C
	-100°F
Linear Coefficient of Thermal Expansion (inch/inch/°F)	0.0007*
Durometer hardness, Shore A	20-30
Thermal Conductivity (BTU in/hr. ft ²)	2.3
Maximum Service Temperature	450°F/232°C

The coefficient of thermal expansion was not determined, this value is typical value for this silicone rubber.

F Uncured Properties: (Liquid State)

Color	Translucent
Consistency	Pourable
Weight per Gallon	9.0 Pounds
Flash Point (ASTM D-93)	106° F / 41°C
Boiling Point	320-380°F/160-193°C
Vapor Pressure (mm Hg.)	2.6
Vapor Density (Air = 1)	4.78
Viscosity	25,000 – 35,000
Application Temp.	Above dew point from -20°F to +100°F/-29°C to 38°C
Packaging:	U.S. quarts, one & five gallon containers & 55 U.S. gallon barrels.
Shelf Life:	6 months unopened

G Anti-Graffiti:

Because Lifetime™ Waterproofing Sealant forms a membrane to which paint does not readily adhere, graffiti can easily be removed by pressure washing.

5 LIMITATIONS:

- * Application should not be on a wet or dirty surface.
- * Application should not be undertaken over refrigerated tanks or areas where a thermal barrier is required.
- * Application must not occur in an interior space where a thermal barrier is required.
- * Application must be in accordance with manufacturer's Application and Use Guidelines.

6 INSTALLATION: The manufacturer furnishes, at no charge, a page entitled "Questions and Answers" which answers frequently asked questions about installation. See section 4 of the Lifetime™ catalog for complete instructions.

Preparation: The surface must be clean and dry. All materials, including any prior treatment, which would interfere with the penetration of Lifetime™ Waterproofing Sealant MUST be removed.

Use as Supplied: Lifetime™ Waterproofing Sealant must be used as it is supplied, with no additives or dilutions. The product container should be shaken modestly prior to application.

Applications: Applications must not take place in inclement weather. Apply product by airless spray, brush, broom or by immersion. On vertical surfaces apply product from top to bottom.

Drying Time: will vary according to temperature and humidity. The drying time can vary significantly from one hour upwards.

Clean Up: Clean application equipment immediately after use with mineral spirits or paint thinner. Re-seal a partially used container immediately.

7 AVAILABILITY AND COST:

Availability: Lifetime™ Waterproofing Sealant is available throughout North America and is VOC compliant. Contact Pro Coatings, LLC for availability elsewhere.

Cost: Contact Pro Coatings, LLC for current pricing. Prices may depend upon quantity, container size and applicable freight.

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- 8 COVERAGE PER GALLON:** These are estimates and may vary considerably due to the porosity of the recipient material.

Surface Type	Sq. Ft.	Sq. M.
Stucco	170	15.8
Wood Shingles	110	10.2
Fencing	125	11.6
Decking	140	13
Driveways/Concrete	150	13.9
Stone – smooth	170	15.8
Stone – rough	130	12
Exterior Brick	120	11.2

9 WARRANTY:

Limited Warranty: Lifetime™ Sealant Products warrants Lifetime™ Waterproofing Sealant to be free from defects in materials and workmanship. In the event of a defect Lifetime™ Sealant Products will replace the product necessary to reapply the affected area free of charge or at its option, refund to the purchaser and amount equal to the amount paid for Lifetime™ product in the affected area. This warranty is extended only to the original purchaser. Purchase receipt or other proof of original purchase will be required before warranty performance is rendered. This warranty only covers failures in materials or workmanship which occur during normal use and in accordance with application guidelines.

Limited Warranty & Exclusions:

There are no express warranties except as stated. Lifetime™ shall not be held liable for the cost of labor, incidental or consequential damages resulting from the use of this product or arising out of any breach of this warranty. Lifetime™ Waterproofing Sealant is a penetrating sealer, and we specifically exclude any liability for normal surface wear and composition or state of material on which Lifetime™ Waterproofing Sealant is applied.

Published technical data and instructions are subject to change without notice. Please contact your Pro Coatings, LLC for the most current information.

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The Houston Chapter of the Construction Specifications Institute

TECHNICAL INSERT

Larry D. Jones, Editor

Silicone Rubber Penetrating Water Repellents

By: Desmond A. Fatter, Jr.: E. A. Fatter & Associates, Inc.

A new adoption of an old technology has appeared on the market offering unique physical characteristics in the field of water repellents – RTV silicone rubber dissolved in a solvent carrier. “RTV” stands for Room Temperature Vulcanizing. These penetrating sealers can be applied to any vertical, porous substrate such as concrete, masonry, brick, or wood.

All surfaces to be treated should be thoroughly cleaned of all dirt, dust, debris, mildew, staining, discoloration, and oil, etc., prior to sealing. Cleaning may be accomplished by high pressure washing, sandblasting, or chemical cleaning. When chemicals are used they must be removed by high pressure water before application of the sealer. Refer to manufacturer's literature for specific product and installation recommendations.

When applied to cleaned, dry surfaces with either an airless sprayer, roller or brush (depending on the nature and porosity of the substrate), the solvent carrier transports the silicone solids into the substrate's capillary system. A 5-9 inch (12.7 – 22.86 cm) rundown is desirable for most vertical surfaces. Application rate may vary depending upon the porosity and texture of the surface but average coverage on concrete surfaces is approximately 150 sq. feet (13.9 sq. meters) per US gallon. During evaporation of the solvent, the silicone solids absorb relative humidity which acts as a catalyst to the cure mechanism. Atmospheric moisture is absorbed, a chemical reaction occurs, and the solids vulcanize to a synthetic silicone rubber in the capillary system of the substrate. Product cure time varies, but is surprisingly fast – anywhere from one to four hours depending on temperature and humidity. The higher the temperature and relative humidity, the faster the cure time. Water repellency occurs within that period.

Containers of material left open, or not tightly sealed, will absorb moisture and cause the product to cure in the container. Product in partially used 5 gallon containers can be saved by transferring material into one gallon cans. Filling cans completely to the top and sealing tightly minimizes the amount of air (thus moisture) in the can.

Little, if any, discoloration appears to occur in the substrate after cure and no alteration of surface texture is seen. However, test applications should always be made to determine any unforeseen problems. Treated surfaces do not appear to attract dirt as do in-place silicone elastomeric joint sealants.

Such materials offer a high perm rate allowing moisture vapor to escape building substrates while not allowing liquids to enter the surface. Therefore, this type material should not be applied to substrates where vapor barrier is required. This class of repellents provide elastomeric properties offering as much as 400% elongation. They respond favorably to thermal expansion/compression of porous substrates as well as bridge hairline cracks accommodating movement from seismic activity and atmospheric turbulence up to their elastomeric capability.

Certain of these products also qualify for horizontal wear surface applications where little, if any, change in frictional characteristics can be determined between treated and untreated concrete. Puddling on these horizontal surfaces must be avoided as silicone rubber would then be left to cure on the surface creating a slippery condition. Immediately wipe up with solvent or spreading with a push broom will insure proper penetration.

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At least one of these products meet with USDA/FDA approvals for use in meat and poultry plants, food storage areas, and zoological applications.

After application, paint adhesion may be difficult depending upon the substrate and type of paint to be applied. A test area is recommended by the manufacturers. Demarcation lines in parking areas on treated decks may be effected with oil based paints, but will require periodic replacement.

As an anti-graffiti, protectorate however, at least one silicone rubber repellent has been demonstrated to allow environmentally safe clean-up of defiled surfaces. Paints, such as Krylon Enamels, applied from spray containers, can be removed from treated concrete surfaces with nothing more than a 3000 PSI blast 210°F hot water. Some products of this class are formulated to comply with voe requirements and the states of California and New York utilizing accepted aromatic solvent carriers in place of petroleum-based solvents.

Regardless of the carrier used, this class of repellents generally offers excellent resistance to chemicals, thus allowing certain formulations to be used in industrial applications such as sealing concrete drip-pads and/or retaining walls. Consult with the manufacturer listed below regarding specific chemicals and concentrations against which you wish to seal. At least one product of this type publishes resistance to a hydrostatic pressure of over two atmospheres.

Silicone rubber demonstrates excellent adhesion to glass and most aluminum extrusions. Such areas adjacent to the substrate to be treated should be protected from overspray. Cured silicone rubber is difficult to remove from glass and trim. Mask these areas and protect shrubs.

Because of silicone rubber's elongation and flexibility in its cured state, this class of repellents have been successfully used to seal canvas awnings, tarps, tents, and boat covers without hindering the fabric's ability to "breathe".

The property most appealing In this class of repellents is longevity. Cured silicone rubber is inorganic and while it cannot be said that this material will last forever, of the major manufacturers of silicone polymer with whom I have conversed none are willing to hazard a guess as to how long silicone rubber can be expected to last. Thixotropic (gun grade) silicone rubber sealants have been in existence since the early 1960s. They have been in place on projects for over 30 years. These same sealants are used in the manufacture of this class of repellents.

They demonstrate excellent resistance to extremes of high and low temperature and show no deterioration from ultraviolet radiation, ozone, salt spray, acid rain, etc. One such manufacturer claims their products to be tested in accelerated weathering machines showing "no breakdown at over 100 years". Their product sustained accelerated weathering per Atlas Twin arc. Weatherometer utilizing the ASTM G-23 test method enduring 10,000 hours while exhibiting no change in its curd silicone properties.

Longevity is, of course, a positive aspect of this type product. For every positive, however, there is a corresponding negative. Visualize 5-10 years down the road when someone decides to paint the building and no records have been kept. The resultant paint job might prove disappointing. Keep good records!

According to one manufacturer, the only way found to disrupt the silicone rubber matrix and remove it from a cement substrate is with a potassium hydroxide solution of a pH value of 13-14. This is a very caustic solution. Investigate manufacturer's recommendations on this issue. Due to the difficulty in removing cured silicone rubber once deposited in the capillary system of a substrate, silicone rubber repellents should be viewed as permanent.

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Clean up of spray equipment, brushes, rollers, tools, and spillage, etc. should be accomplished with the solvent carrier alone. Solvents employed are usually mineral spirits or Naphtha, but the silicone rubber cure system may dictate the use of other types. Certain cure systems allow the use of high flash point (100°F +) mineral spirits which yields a product classified as "combustible". Other cure systems may contain a low molecular weight alcohol which carrier a "flammable" product rating. Manufacturer's Safety Data Sheets (MSDS) should be reviewed, and suitable precautions taken for the corresponding rating.

As always, consult manufacturer's written specifications and recommendations relative to product selection, substrate preparation, and product application. Always make a test patch to determine actual coverage rates and compatibility. Do not dilute or alter these products in any way. They should be applied as they come from the container. Manufacturers should furnish test data to support claims.

The Technical Insert is a regular feature of the Heartbeat, the CSI Houston Chapter Newsletter, and is edited and submitted by the Chapter Technical Committee. It is printed and pre-punched as an insert to allow you to incorporate these into your own reference systems. While INSERT articles are intended to provide generic state-of-the-art information. Heartbeat and CSI Houston, the Houston Chapter of the Construction Specifications Institute, do not approve, disapprove, endorse, sanction, or guarantee the validity or accuracy of any date, claim or opinion expressed herein. Reprints are allowed provided proper credit is included therein. Articles to be considered should be transmitted to the Chapter Technical Chairman, Larry D. Jones, CSI 10333 NW Frwy., #305, Houston, Texas 77092 (683-1029, FAX 686-0498).

Lifetime™ Waterproofing Sealant System

The Houston Chapter of the Construction Specifications Institute

TECHNICAL INSERT

Susan Canavespe, CDT-Editor

Sealing Top Level Concrete Decks and Ramps of Parking Garages with Traffic Grade Liquid RTV Silicone Rubber Penetrating Water Repellents.

By: Desmond A. Fatter, Jr.: Eric Hitchcock and Randy Schleisman

Liquid RTV silicone rubber penetrating water repellents have demonstrated exceptional sealing characteristics on a variety of porous vertical substrates. "RTV" stands for Room Temperature Vulcanizing. Certain of these RTV technologies also lend themselves to sealing horizontal concrete vehicular traffic surfaces in parking garages, particularly to top level decks and ramps. The concrete must possess a broom-finished, skid-resistant surface. Such applications are not designed for high-speed traffic areas such as streets, bridges, freeways, or overpasses.

The cure mechanisms of these products are dependent upon atmospheric moisture. The solvent carriers in these clear sealers transport the dissolved RTV silicone rubber solids down into the capillary system of the concrete surface. The solvent evaporates and the uncured solids absorb relative humidity and cures to a silicone rubber in the capillary system of the substrate. The resulting silicone rubber seal will "breathe", being permeable to moisture vapor, but not to liquids.

These RTV silicone repellents are capable of bridging hairline cracks up to 1/32". The treated and cured hairline cracks should then be dressed in a second coat of repellent using a narrow bristle brush. This second treatment of only the cracks serves to provide insurance that sufficient cured silicone rubber will be present in the crack to accommodate dynamic movement. These RTV silicone repellents are elastomeric in nature, demonstrating up to 415% elongation. Cured in place, these products will accommodate substrate thermal expansion/contraction. Cracks larger than hairline must be routed and sealed with a low modulus, traffic grade, silicone joint sealant to insure chemical compatibility of the system. The sealant should be installed in the routed crack approximately 1/8" below the traffic surface to minimize stress on the bond line as vehicles roll over the crack. All horizontal expansion joints and intersecting perimeter joints should also be sealed with a low modulus, traffic grade, silicone sealant.

Depth penetrations of RTV silicone repellents average 1/8" to 3/16" depending on concrete porosity. As silicone rubber is inorganic in its cured state, it constitutes a permanent application, unaffected by ultraviolet degradation, heat/cold cycles, salt spray, ozone attack, acid rain, etc. At least one manufacturer publishes cured product temperature physicals from +400°F down to -70°F and offers test data demonstrating excellent resistance of treated surfaces to chloride ion (salt) penetration. Under Regulation V, published by the Texas Air Control Board, at least one product is in compliance with all current Texas VOC requirements. Material warranties on horizontal vehicular traffic parking decks and ramps are available for up to five years, dependent upon existing conditions at each specific project.

Traffic surfaces must first be thoroughly cleaned prior to application of the RTV silicone repellent. All existing paint stripes, oil spots, rust stains, encrustation, mildew, dirt, etc., must be removed. Oil spots should be pre-treated with chemical solvent degreasers, caustic soaps, or alkali scrubbers, etc., prior to surface blasting operations. To improve overall cleaning results, it is preferable that several chemical applications be made, with a sufficient period in between each, to allow time for deeply trapped oil to surface and be scrubbed away. Persistent rust stains should be treated with chemical rust removers, in like manner, for the best effect.

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High pressure surface blasting with automated equipment, utilizing either water or abrasives, has proven most effective in preparing horizontal surfaces to accept RTV silicone repellents. Water blasting with portable rotating multiple nozzled equipment enables the nozzles to be positioned at a uniform distance from the concrete surface during the cleaning process. Such uniformity of surface cleaning is virtually impossible to obtain using hand-held cleaning wands. In using this equipment operating water pressure, water volume, and nozzle tip selection are critical to cleaning results. The concrete surface must be allowed to dry thoroughly prior to application of the RTV silicone repellent.

Abrasive blasting can be accomplished either by open-air sand blasting, or by closed-system metallic blasting. Of the two systems, the closed-system method is the more environmentally safe. Automated steel shot closed systems impact the work surface with metallic abrasives thrown at high velocity by rapidly rotating blast wheel. As the abrasive scours the work surface, it is rebounded, along with the removed contaminants, into a highly efficient recovery system, thereby eliminating dust and clean-up.

New concrete surfaces require only a high pressure air blow off, or, if necessary, a high pressure water blast, the surface then being allowed to dry thoroughly prior to the RTV silicone repellent. The repellent should be applied to the dry concrete surface prior to painting parking stripes. This will ensure that the integrity of the repellent application is not interrupted, and therefore, violated when paint wears away. Though surfaces treated with RTV silicone repellents tend to reject paints (they are excellent anti-graffiti protectorates), one manufacturer suggests that parking strips can be applied to treated surfaces successfully by adding $\frac{1}{2}$ pint of RTV silicone repellent per one gallon of oil based paint. This method appears to offer acceptable paint adhesion to treated surfaces for striping purposes only. General painting of vertical or horizontal treated surfaces is not recommended.

The RTV silicone repellent is applied by means of a low pressure sprayer to the cleaned, dry, concrete surface at an average rate of 125 square feet per gallon. Coverage rates will vary depending upon surface porosity. Test patches should always be made on every project to determine percent solids required, and proper coverage rate. Care should be taken that all RTV silicone repellents completely penetrate the horizontal surface to which they are applied. RTV silicone repellents which are allowed to pool, and then cure on a traffic surface, may produce a slippery condition when wet.

Should windows be encountered at a level close to the traffic surface to be treated, all glass and aluminum extrusions should be masked to avoid possible silicone rubber repellent overspray.

As always, consult manufacturer's written specifications and recommendations prior to product specification, and application. Always specify that test patches be made to determine actual coverage rates and compatibility. Do not dilute or alter these products in any way. They should be applied as they come from the container. Manufacturers should be prepared to furnish test data to support all claims.

For additional information on this class of water repellents, refer to the Technical Insert published in the February 1992 issue of the Heartbeat.

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LIFETIME™ WATERPROOFING SEALANT TESTING RESULTS

Independent Test Results* using Lifetime™ Sealant indicate:

- Sharp gains in compression strength of concrete
- High resistance to Chloride Ion penetration
- Efficient perm rate permits concrete to cure slower and harder.
- No significant change in frictional properties.
- Impermeable to liquid water, yet allow trapped moisture to escape by vapor

Lifetime™ Sealant is a penetrating silicone rubber material, designed to give permanent treatment to wood, concrete, masonry and other porous substrates. It prevents water from penetrating the surface, it is not a water repellent.

TECHNICAL TESTS

1) Exterior exposure:

Samples of the base material have been exposed for 45 years without deterioration from ultraviolet rays, salt spray, acid rain, and other climatic conditions.

Samples have been exposed to thermometer testing equal of 100 years without breakdown.

NOTE: These tests show that the Lifetime™ Sealant will not deteriorate. Certain factors may influence the deterioration of the substrate beyond the penetration of water.

2) Concrete exposure:

An independent state laboratory tested the performance of Lifetime™ against other sealers and bare concrete. The samples were exposed to 378 freeze thaw cycles and the weight loss determined. Lifetime™ was one of the best at 1.2% untreated concrete lost 33.7% to 68.1%.

The same laboratory conducted skid readings and “Sealer products indicate little of no effect on the surface resistance”. The product should not make concrete more slippery.

Lifetime™ Waterproofing Sealant System

3) Penetration and Water transmission

Laboratory tests show that the absorption of water on treated cedar versus untreated cedar is at the ratio of 24 to 1, or that untreated cedar absorbs 96% more water than treated cedar. Tests on pine show a similar improvement.

Tests show that cured material makes a nearly perfect barrier for liquid water yet allows water vapor to freely move in and out, to maintain a moisture equilibrium with the atmosphere.

4) Slip Resistance – Wood

Comparison of Lifetime™ with the leading commercial product shows that the two are equal.

Untreated, milled #2 pine showed no change in slip between treated or untreated.

Treated (wolmanized) pine showed a definite change when both were applied. It is believed that this is due to sealing the surface after the effects of water on the wood at the time of treatment.

All tests show that this material greatly improves the life cycle of wood, concrete, and masonry. To quote the State of Utah, "using concrete sealer on old or new concrete would be economically beneficial by extending the concrete's life by several years". The same applied the wood and masonry.

Published technical data and instructions are subject to change without notice. Please contact your Pro Coatings representative for the most current information.

*Utah Department of Transportation Research and Development Unit test data is available to interested parties.

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Lifetime™ Waterproofing Sealant System

HAUSER CHEMICAL RESEARCH, INC.

JULY 27, 1990
Report #890751-9

MATERIALS: Sealant product formulated for IDC, Inc., identified as "Commercial Grade" product, compared with Petrarch SE and Glassclad FF products.

RESULTS: The three products were tested together for comparison. Cedar coupons 2" square, about 3/8" thick, were soaked for 30 seconds in each product, then wiped off with a soft cloth and allowed to cure for three days. The weight gain due to the cured rubber in the wood was measured. The weight of the original product necessary to provide that much rubber was also calculated, and these weights were related to the original weight of the wood coupons.

The coupons were soaked in water for one minute, then wiped dry of surface moisture with a soft cloth. After one minute conditioning, the weight of water taken up by the coupons was measured. The water was related to the original weight of the coupon, and to the weight of the absorbed rubber. A control coupon (untreated) was included in the tests. The rests of the measurements and calculations are given in the Table:

	Petrarch FF	Petrarch SE	Lifetime Commercial	Control
Coupon Weight:	10.155	7.669	8.066	10.778
Weight of cured product:	.3456	.1335	.0369	-
Solids content of product:	49.1	33.0	8.0	-
Weight of raw product:	.704	.405	.527	-
Water absorbed:	.0313	.0213	.0134	1.0054
Water as % of coupon weight:	.31	.28	.39	9.3
Weight of solids per wt. of water:	11.0	6.27	1.18	-

This report applies only to the sample, or samples, investigated and is not necessarily indicative of the quality or condition of apparently identical or familiar products. As a mutual protection to clients, the public and these Laboratories, this report is submitted and accepted for the exclusive use of the client to whom it is addressed and upon the condition that it is not to be used, in whole or in part, in any advertising or publicity matter without prior written authorization from Hauser Laboratories, Inc.

Lifetime™ Waterproofing Sealant System

JULY 27, 1990
Report #890751-9
Page 2

The two Petrarch products are much higher in solids content than the claims made for the Lifetime™ sealants. They are also much higher in viscosity, which retards penetration into porous substrates. During the application of the SE and FF products, it was noted that they tended to remain on the surface. When the surface coating is allowed to dry and then cure, a water resistant coating results. Such a coating is far more susceptible to damage through erosion, abrasion, or other light physical damage, as well as by exposure to temperature extremes.

The Lifetime™ product, on the other hand, penetrates instantly into a porous substrate, and following drying provides thorough protection. It cannot be abraded off the substrate, since it is throughout the material, and it is protected from degradation due to UV exposure or other weathering effects by being internal, rather than a surface coating.

Similar protection from water absorption was obtained for the short treatment with all three products. However, the protection obtained per unit weight of cured product is far greater with the penetrating sealant, with approximately ten times as many solids being required for the FF, and six times as much for the SE product, as for the Lifetime™ product. This reflects the fact that the water repellent nature of the material is throughout the body of the test coupon, rather than just on the surface. By repeated applications, the pores can be entirely filled by use of the penetrating sealer, but only the surface can be entirely filled using the coating sealers.

WORK REPORTED BY:

Ronald Turner
Chemical Project Manager

Copy: Ellen Winner

Lifetime™ Waterproofing Sealant System

HAUSER CHEMICAL RESEARCH, INC.

January 30, 1990
Report #890751-4

MATERIALS: Sealant product formulated for IDC, Inc., identified as "Industrial Grade" product.

TESTS: Determine performance specifications for materials.

TEST METHODS: Bond paper was impregnated with the product, allowed to cure, and then tested for moisture permeability. A comparison test was performed on a sheet of the same paper without treatment.

RESULTS: The results of the tests are given in the Table:

Properties of the Cured Film

Permeance in contact with liquid water: (U.S. Perms) (Grains/hr. ft. ² in Hg)	4.5 1.9
Durometer Hardness, Shore A	20 – 30
Tensile Strength, psi (Standard Deviation = 76)	342
Elongation, percent (Standard Deviation = 64)	435
Brittle Point, degrees C degrees F	Below – 73 Below-100
Thermal Conductivity (BTU in./hr. ft. ² °F)	2.3
Maximum service temperature	450°F / 232° C
Linear Coefficient of Thermal Expansion (inch / inch / °F)	0.0007*

*The coefficient of thermal expansion was not determined; this is a typical value for silicone rubber.

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Lifetime™ Waterproofing Sealant System

January 30, 1990
Report #890751-4

DISCUSSION:

The permeance is a measure of how rapidly water vapor transfers through the film. A dead air space transfers vapor at a rate of about 120. A nearly perfect vapor barrier, such as aluminum foil backed kraft, will have a value of about .005. A value of 1.9 indicates that 1.9 grains (.123 grams) of water vapor will transfer through one square foot of the barrier each hour if the difference in vapor pressure of water one inch of mercury.

The silicone rubber coating is impermeable to liquid water because the water cannot "wet" the silicone. However, the relatively high perm measurement means that water vapor can freely escape from the substrate. This combination of very low liquid water transmission plus relatively high vapor transmission will be beneficial for materials such as concrete, which inevitably absorb water from inside the building, from footings, and from rainfall. The absorbed water, if trapped by a totally impermeable outer coating, may condense in the concrete near the outer wall. In cold weather this trapped water can freeze and cause spalling of the concrete. A water repellent barrier, such as the silicone rubber sealant, can prevent essentially all the rainwater penetration. However, it still allows water which may have been absorbed from underground, or from inside the building, to escape as vapor.

WORK SUPERVISED BY:

Ronald Turner
Chemical Project Manager

WORK PERFORMED BY:

Julie Krause-Singh
Engineer

Lifetime™ Waterproofing Sealant System

HAUSER CHEMICAL RESEARCH, INC.

March 12, 1991

To: Lifetime™ Sealant Products, Inc.

In response to your request, here is a discussion of expected compatibility of Lifetime™ Sealant with several materials of construction. As we discussed, these options are based on a study of the product literature and on our knowledge of materials. We have not tested the compatibility of Lifetime™ with the brands of products discussed here, but we are familiar with the chemistry involved in these kinds of products. We are basing our expectations on this understanding of sealant chemistry.

Ashford Formula (Curecrete Chemical Company, Inc.)

A study of the product literature and Material Safety Data Sheet (MSDS) shows that this product is probably a water solution of Sodium Silicate of (perhaps) a mixture of fluosilicate and silicate. Ideally, these materials react with some of the soluble calcium, magnesium, and aluminum compounds in partially cured concrete, forming insoluble silicates such as calcium silicate. To the extent this is successful, some of the possible efflorescence (caused by movement of soluble salts to the surface of the concrete followed by evaporation to form white crusts) is suppressed because soluble calcium is tied up as calcium silicate. Of course, there is still the soluble sodium or other alkali metal which was used as a carrier for the applied silicate.

Once the Ashford Formula is in place and cured, there should be no chemical interaction with Lifetime™ sealant. Also, we would not expect any reduction in effectiveness in applying Lifetime™ product after a silicate type sealant, if the silicate has not fully sealed and filled the concrete.

On the one hand, if the Ashford Formula has successfully sealed the concrete so that no porosity remains, then not so much Lifetime™ will penetrate. Of course, very little would be needed in such regions.

On the other hand, if the concrete is not well-filled by the Ashford Formula, the Lifetime™ product should penetrate well and function as intended. Any sealing effect of the Ashford product would probably add to the overall sealing effect. We would agree with your assessment, that if water penetrates, the Lifetime™ product will also. It will, of course, penetrate better (faster and deeper) than water.

Sikaflex-2c Joint Sealant (Sika Corporation)

Based on the product literature, this is a two-part Polyurethane sealant. Before cure, it is not compatible with solvents, but after curing, it will be insoluble in all but the most aggressive solvents. As you know, the Lifetime™ material releases a low level of acetic acid (vinegar) during cure. This will not harm cured polyurethane, but could affect the cure if the joint compound has not yet cured. If the Sikaflex-2c sealant is in place and cured, one would expect no particular chemical interaction between the sealant and the Lifetime product.

According to the Sikaflex literature, the cured product is Jet fuel resistant, and is paintable with water-, oil-, and rubber-base paints. These listed properties imply that the cured material will be compatible with hydrocarbons as well as with other solvents used in paint. In the instructions for use of the Sikaflex compound, advice is given to avoid contact with alcohol and other solvent cleaners during cure. Also, "Do not cure in the presence of curing silicones".

Lifetime™ Waterproofing Sealant System

Both products cure by chemical reactions. After cure, they are not soluble in most solvents, nor will they react with ordinary reactive chemicals or other curing systems. We would expect no chemical interaction of Lifetime™ with the Sikaflex-2c product when the Lifetime™ is applied after the polyurethane has cured. One possible exception that might occur would be some pigment bleed from the polyurethane sealer on contact with the solvent in the Lifetime™. Although we would not expect this to occur, this condition can easily be tested in a small area by wiping some of the Lifetime™ over the Sikaflex sealant with a white rag, to observe whether there is any bleed of pigments.

Mortar Grout

No chemical interaction would be expected between Lifetime™ and Mortar Grout. Grout will have a varying consistency and porosity, depending on the exact mix used. Cured Grout is very similar to concrete: applied Lifetime™ would be expected to seal it as it does concrete.

I hope the above is helpful to you; if you have any questions, please call.

Sincerely,

HAUSER
Ronald Turner
Senior Chemist

File: 890751

Lifetime™ Waterproofing Sealant System

May be used to comply with OSHA's Hazard Communication Standard, 29 CFR 1910.1200. Standards must be consulted for specific requirements.

Section I MANUFACTURER'S INFORMATION

Manufacturer's Name & Address:

Lifetime, Inc.
P.O. Box 177
Kings Park, NY 11754

Telephone Number for Information: 631-979-4990
EMERGENCY CONTACT: CHEMTREC 800-424-9300
Date Prepared: December 2003

Section II MATERIAL IDENTIFICATION AND INFORMATION

Hazardous components – Chemical Name & Common Names
(Hazardous Components 1% or greater; Carcinogens 0.1% or greater)

	CAS #	VAPOR PRESSURE mmHg @ TEMP		WEIGHT PERCENT
Mineral Spirits/Solvent Naptha OSHA PEL: 500 ppm, ACGIH TLV: 100 PPM	8052-41-3	2	68 deg	70
Diisopropylbiphenyls	69009-90-1	.01	77 deg	15
Trilsopropylbiphenyls	29225-91-0	.01	77 deg	<1

***No toxic chemical(s) subject to the reporting requirements of section 313 of Title III and of present. ***

Section III PHYSICAL / CHEMICAL CHARACTERISTICS

1) BOILING POINT:	334°F
2) SPECIFIC GRAVITY (H ₂ O=1):	.83
3) MELTING POINT:	n/a
4) VAPOR DENSITY:	Heavier than air
5) EVAPORATION RATE:	Slower than ether
6) SOLUBILITY IN WATER:	Non-Soluble
7) WATER REACTIVE:	N/A
8) APPEARANCE & ODOR:	Liquid, mild solvent odor
9) COATING V.O.C.:	4.94 lb/gl

Section IV FIRE AND EXPLOSION DATA

1) FLASH POINT:	105°F
2) METHOD USED:	TCC
3) FLAMMABLE LIMITS IN AIR BY VOLUME:	LOWER: 1 UPPER: 7
4) EXTINGUISHER (MEDIA)	Foam, CO ₂ , Dry Chemical, Water Fog
5) SPECIAL FIRE FIGHTER PROCEDURES:	<u>Water should be used to cool container to prevent pressure build up, which could result in container rupture.</u>
6) UNUSUAL FIRE AND EXPLOSION HAZARDS:	Vapor accumulations and spray mist may flash or explode if ignited. Water should be used to cool containers to prevent pressure build up, which could result in container rupture. Vapors are heavier than air and may travel along the ground to ignition sources at locations distant from material handling point.

Lifetime™ Waterproofing Sealant System

Section V REACTIVITY DATA

- | | |
|---|---|
| 1) STABILITY | Stable |
| 2) CONDITIONS TO AVOID: | N/A |
| 3) INCOMPATIBILITY (Materials to Avoid) | Strong Oxidizers |
| 4) HAZARDOUS DECOMPOSITION OR BYPRODUCTS: | May produce fumes when heated to decomposition. Fumes may contain carbon monoxide and carbon dioxide. |
| 5) HAZARDOUS POLYMERIZATION: | Will not occur |
-

Section VI HEALTH HAZARD DATA

- | | |
|---|--|
| 1) HEALTH RISKS AND SYMPTOMS OF EXPOSURE: | Eyes: Severe irritation, redness, tearing and blurred vision.
Inhalation: Can cause nasal and respiratory irritation, dizziness, weakness, fatigue, nausea, and headache.
Skin Contact: Prolonged or repeated exposure can cause moderate skin irritation, defatting and dermatitis.
Ingestion: Can cause gastrointestinal irritation, nausea, vomiting, and diarrhea. Aspiration of material into lungs can cause chemical pneumonitis which can be fatal. |
| 2) CARCINOGEN LISTED IN: | NTP: N/L
IARC Monograph: N/L
OSHA: N/L |
| 3) HEALTH HAZARDS: | ACUTE: Vapors are irritating to eyes, nose, and throat. If inhaled they can cause headaches, breathing difficulties and loss of consciousness. Liquid is irritating to skin and eyes. If swallowed it will cause nausea and vomiting, can be fatal if swallowed or taken into the lungs.
CHRONIC: Prolonged contact will cause drying and cracking of skin. Allergic responses may develop. Potential for liver and kidney damage.
Any skin or respiratory condition. |
| 4) MEDICAL CONDITIONS GENERALLY AGGRAVATED BY EXPOSURE: | |
| 5) EMERGENCY FIRST AID PROCEDURES: | Seek medical assistance for further treatment, observation and support if necessary. |
| 6) EYE CONTACT: | Flush with water for 15 minutes. Seek medical attention. |
| 7) SKIN CONTACT: | When irritation occurs wash with soap and water. |
| 8) INHALATION: | Remove to fresh air. |
| 9) INGESTION: | <u>Do not induce vomiting. Consult a physician immediately.</u> |
-

Section VII CONTROL AND PROTECTIVE MEASURES

- | | |
|----------------------------|---|
| 1) RESPIRATORY PROTECTION | Use self-contained breathing apparatus where vapor concentrations are above TLV limits. Below TLV limits, use a NIOSH approved, canister type vapor respirator. |
| 2) PROTECTIVE GLOVES: | Chemical resistant (Neoprene) gloves. |
| 3) EYE PROTECTION: | Safety glasses with side shields or goggles. |
| 4) VENTILATION TO BE USED: | Local exhaust must be sufficient to keep airborne vapor below TLV limits. |
-

Lifetime™ Waterproofing Sealant System

- | | |
|-----------------------------|--|
| 5) WORK/HYGIENIC PRACTICES: | Wiping rags or other absorbents saturated with this product are potential sources of spontaneous combustion. Store all rags in a closed, water filled container or spread out and allow to dry completely before disposal. |
| 6) OTHER: | None |

Section VIII PRECAUTIONS FOR SAFE HANDLING AND USE/LEAK PROCEDURES

- | | |
|--|---|
| 1) STEPS TO BE TAKEN IF MATERIAL IS SPILLED OR RELEASED: | Evacuate all non-essential personnel. Remove all sources of ignition. Ventilate the area. Equip employees with protective equipment. Absorb spill with a non-flammable absorbent. Place in closeable containers using non-sparking tools. |
| 2) WASTE DISPOSAL METHODS: | Dispose in accordance with all applicable local, state, and federal regulations. Empty cans: leave in ventilated area then dispose of properly. |
| 3) ENVIRONMENTAL IMPACT: | N/A |
| 4) PRECAUTIONS TO BE TAKEN IN HANDLING AND STORAGE: | Avoid storage or use near sparks, heat, or flame. Closed empty containers of this product may be hazardous. Dispose of empty containers immediately after use. |
| 5) OTHER PRECAUTIONS | NOTICE: Reports have associated repeated and prolonged exposure to solvents with permanent brain damage and nervous system damage. Intentional misuse by deliberately concentrating and inhaling vapors of this product may be harmful. |

Published technical data and instructions are subject to change without notice. Please contact your Pro Coatings, LLC representative for the most current information.

Lifetime™ Waterproofing Sealant System

- 1. Does a porous substrate require any preparation before applying Lifetime™ ?**

Yes. Any substrate should be thoroughly cleaned with a hot water power wash. Extremely dirty surfaces are preferably cleaned with a hot commercial grade chemical or detergent power wash. Let substrate dry thoroughly (maybe 3 – 5 days in fair weather) then apply Lifetime™. Any prior sealer application **must** be removed from the substrate by using the above process.
- 2. How many coats should I apply?**

One coat. Apply Lifetime™ in a single, liberal, saturating application so that the surface remains wet, but not puddled, for a few seconds before penetrating. It is best to cover a small section of several feet, move to a second and third section, and then go back to section one to assure complete penetration.
- 3. What equipment should I use to apply Lifetime™?**

Use a compressed air tank, airless sprayer not to exceed 500 PSI, brush, roller or paint pad. Lifetime™ can be poured on horizontal surfaces and then spread with a push broom.
- 4. Does Lifetime™ comply with all regulations?**

Yes, Lifetime™ is VOC compliant.
- 5. What is the UV or reflective factor of Lifetime™?**

Lifetime™ is resistant to UV deterioration.
- 6. Can Lifetime™ be applied on steel, plastic, epoxy or epoxy-like surfaces?**

No Lifetime™ is a penetrating sealer and requires a porous surface to permit penetration to be effective.
- 7. Is Lifetime™ a fire retardant product?**

It is not rated as a fire retardant. However, Lifetime™ fills the void and hairline cracks of a surface and reduces the amount of oxygen available to that surface. Lifetime™ is stable to 400°F / 204°C and at that point starts to break down.
- 8. Is Lifetime™ a curing agent for a new concrete?**

Yes. A perm rate greater than 7 allows the moisture vapor to escape more slowly than normal and prevents liquid from entering the surface. This results in a slower cure and a harder concrete. NOTE: If Lifetime™ is used as a curing agent, curing application would be nearly immediately after concrete pouring, and then applied less than full sealant strength. If there are plans to subsequently seal the concrete, we recommend several applications of water be used as the curing agent, so that Lifetime™, or another curing agent such as paraffin does not have to be removed prior to sealing with Lifetime™ in order to get properly penetration. Also, a clear rinse is recommended for a minimum of 3 – 5 days prior to sealing to remove any loose particles and debris. Consult Pro Coatings LLC.
- 9. How long should I wait before applying Lifetime™ to new concrete?**

Wait until the surface appears to be cured, usually a minimum of seven days and the concrete has not had any water applied to it for the past 3 – 5 days.
- 10. Can Lifetime™ be used below grade on foundations that have contact with soil?**

Yes. Approximately two weeks should be allowed after application before backfilling the foundation.
- 11. Will Lifetime™ make the surface slicker?**

Negligibly so for a short period on concrete. Horizontal wood surfaces are likely to be slick for several weeks following application. READ COMPLETE APPLICATION INSTRUCTIONS TO AVOID SLICK SURFACES.

Lifetime™ Waterproofing Sealant System

12. What other qualities separate Lifetime™ from its competitors?

Lifetime™ Waterproofing Sealant is a patented, proprietary technology.

Lifetime™ has an elasticity greater than 400%. It withstands normal vibrations and minor seismic shakes, thereby bonding the concrete and minimizing damage.

Lifetime™ has been through a series of tests, such as chloride ionization, sulfuric acid, UV, freeze / thaw (500+ cycles) and there has been no change in its structure or effectiveness as a high quality sealant.

Lifetime™ provides an even application. This is extremely rare in any sealant and is due to control of molecular migration.

13. Does Lifetime™ make cleaning the surface easier?

Definitely. Foreign matter (ice, oil, food, etc.) is easier to remove from the sealed surface because Lifetime™ has prevented the foreign matter from penetrating the surface. Therefore, it weakens the bond of the foreign matter to the sealed surface.

14. Are there maintenance requirements to assure the longevity effectiveness of Lifetime™?

Substrates sealed with Lifetime™, especially horizontal surfaces, should undergo an annual cold water power washing. This will restore the newer appearance and remove air pollutants, dirt, grease, etc., which if allowed to remain will eventually grind into both concrete and wood and reduce the effectiveness of Lifetime™.

15. Will Lifetime™ affect the color of the substrate? Will it blotch it?

No. Lifetime™ is a Room Temperature Vulcanized (RTV) rubber. It does not yellow or harden with age.

16. Is there a reaction to adhesives, which may be used in conjunction with Lifetime™?

Maybe. For unusual applications, it is recommended that an inconspicuous test patch be used for trial, or contact your Pro Coatings, LLC for a list of compatible products.

17. What are ideal surfaces on which Lifetime™ should be applied?

Concrete, wood, stucco, brick, canvas, block, pressure treated lumber, wood shingles, aggregate, stone, tile, grout; any recipient material that allows the penetration of water. Lifetime™ should NOT be applied to asphalt.

18. Is Lifetime™ a water repellent?

It's much better. Lifetime™ is a waterproofing system. It is impervious to water and prevents permeation of water.

19. In what temperature range can Lifetime™ be applied?

At any temperature above the dew point. Generally, Lifetime™ is applied from -20°F to +110°F (-29°C to +43°C). However, if applied below freezing, be sure the substrate does not contain any frozen elements such as ice or frost.

20. What is the reaction of salt on Lifetime™?

None.

Published technical data and instructions are subject to change without notice. Please contact your Pro Coatings, LLC representative for the most current information.

Pro Coatings, LLC

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Lifetime™ Waterproofing Sealant System

LIFETIME 6% SOLIDS BY WEIGHT
Recommended for brick, concrete, wood and canvas.

LIFETIME PLUS 12% SOLIDS BY WEIGHT
Recommended for split face, fluted, and smooth masonry block, concrete, and porous brick. **Two coats of Lifetime™ Plus for graffiti control.**

FOR BEST RESULTS:

- **TEST APPLICATIONS SHOULD ALWAYS BE MADE**
- Make sure the surface to be treated is clean and dry. It is best to apply a small inconspicuous test patch to check for aesthetics and penetration.
- Lifetime™ Waterproofing Sealant can be applied with a brush, roller, broom or airless spray. With an airless spray use low pressure for all surfaces other than shake shingle roofing, where high pressure is recommended to allow application of product underneath the shingle.
- Lifetime™ Waterproofing Sealant can be applied to horizontal or vertical surfaces. It is applied from top to bottom on vertical surfaces. Flood coat the material on vertical surfaces so that a 6 – 8 inch run down is achieved.
- Application of Lifetime™ should cover material completely but avoid puddling on the surface.
- Clean equipment immediately after use with mineral spirits or paint thinner.
- If you partially use a container, reseal it immediately and completely.
- Lifetime™ Waterproofing Sealant must be used as supplied by factory or distributor, without the use of solvents, catalysts or curing agents.

WARNING AND CAUTION

- Read, understand, and follow the Material Safety Data Sheet supplied with the material before use.
- Apply in a well-ventilated area.
- Avoid contact with eyes and skin.
- Avoid breathing mist or vapor.
- Overspray on foliage will damage the plant.

EMERGENCY FIRST AID INSTRUCTIONS:

- Ingestion: Do not induce vomiting. **GET MEDICAL ATTENTION.**
- Eyes: Flush with water.
- Skin: Wash with soap and water.
- Please – Read the instructions and warnings on the container.

Lifetime™ Waterproofing Sealant System

INSTRUCTIONS & GUIDELINES FOR LIFETIME™ SEALANT COMPATIBILITY WITH STAIN OR PAINT

Lifetime™ Sealant has been found to be chemically compatible with stain or paint only under the following conditions.

- 1. PREPARATION:** In all cases, the surface to be treated must be entirely free from dirt, grease, loose particles, any previously applied sealer or color product and other debris prior to application of either Lifetime™ or the coloring product. The only known way this can be accomplished is to power wash the substrate with high pressure and hot water and let the substrate dry for a minimum of two days with fair weather – until the substrate appears to be dry and moisture free. Lifetime™ is a penetrating sealant, and therefore any foreign substances present will block the penetration and waterproofing effect of Lifetime™ Sealant.
- 2. STAIN COMPATIBILITY:** Lifetime™ Sealant is compatible with mineral spirit based stains. Staining can be accomplished in a two step process where the stain is applied first, then Lifetime™ Sealant is applied at full strength after the stain has dried. **RECOATING:** When applying or reapplying stain to a surface previously treated with, Lifetime™ Sealant so the mixture is approximately 1/3 Lifetime and 2/3 stain. Follow the stain manufacturer's application directions on the can. (The mixture is necessary to establish a molecular bonding of the rubber ingredients in the sealant and the stain mixture.
- 3. PAINT COMPATIBILITY:** Lifetime™ Sealant is compatible with high quality oil based paint. Follow the paint manufacturer's application guidelines on the can, then apply Lifetime after the paint has completely dried. For recoating a previously treated surface, the curing and mixing process is identical to the stain instructions above, with 1/3 Lifetime™ and 2/3 oil based paint.
- 4. Lifetime™ SEALANT DISCLAIMER:** Lifetime™ Sealant Products specifically disavows any responsibility for any resulting problems, product claims, damages, et., from mixing Lifetime™ Sealant with another product. Lifetime™ Sealant Products will acknowledge responsibility for only the waterproofing properties of the Lifetime™ Sealant. Further, Lifetime™ Sealant Products disavows any responsibility for product color life of any mixture made with Lifetime™ Sealant.
- 5. INCOMPATIBILITIES:** Please note that Lifetime™ Sealant is compatible with only the products identified above. Lifetime™ Sealant is NOT COMPATIBLE with products such as: Pigment, Latex, Paraffin (wax), Water, and Acrylic Based products, as well as Varnishes, Plastics, Enamels, and other non-porous substrates and coatings.
- 6. GENERAL INFORMATION ABOUT LIFETIME™ SEALANT:** Since Lifetime™ is a penetrating product, it can only penetrate porous surfaces, and then only when the substrate has been properly cleaned as described above. The manufacturing process of Lifetime™ includes addition of both mildewcide and fungicide. However, when Lifetime™ is covered with another product, or mixed with another product, these additives are rendered useless, or at best ineffective. In addition, under these conditions, Lifetime™ may lose some of its other properties, such as flexibility, breathability (allowing moisture vapor to escape the substrate), ultraviolet ray protection, etc. Also, please remember that Lifetime™ is an "air cure" product (high humidity = faster cure), and therefore, once the can is opened the curing process begins. Lifetime™ Sealant Products, it's manufacturers or agents are not responsible for replacement of jelled product resulting from air exposure over any period of time.

Lifetime™ Waterproofing Sealant System

WOOD TREATMENT:

Wood is a unique substrate to seal. Like the tree it came from, each board may have a slightly different grain, composition, and appearance than the one beside it. Consequently, its treatment may need special attention. Generally, any good, new, or aged, is going to need thorough cleaning to prepare it for long lasting Lifetime™ Waterproofing Sealant. The only known acceptable method of cleaning is to power wash the wood with hot water {approx. 180° F/82°C) at approximately 2,000 to 2,200 psi, holding the nozzle a minimum of 6 inches (15 cm.) from the surface. Rinse thoroughly.

LET THE WOOD DRY THOROUGHLY BEFORE APPLYING LIFETIME™!

Drying time may take 3 – 5 days even in fair warm weather and low humidity. The moisture content of the wood and the atmosphere should be equalized before application of Lifetime™. Since moisture swells wood, any drying and drawing will shrink the wood. Therefore, if Lifetime™ is applied prematurely (before the wood is allowed to dry thoroughly), microscopic pores will emerge between the wood and Lifetime™, thus allowing water penetration. As wood ages, shrinking also occurs, although at a much slower pace. Thus, after aging for perhaps one or more years, a second light coat of Lifetime™ may be necessary. However, be careful not to apply too much, as the surface may become fairly slick for several weeks or longer.

WOOD AGE: When Lifetime™ Sealant is applied to wood, the wood must be properly seasoned. For most woods this is a minimum of three months of UV exposure after milling. Some mills treat their stock with paraffin before shipping and this should be UV exposure for six (6) months before applying Lifetime™. **REDWOOD:** Redwood should be UV exposed a minimum of twelve (12) months before applying Lifetime™. Whether the wood is new or aged, the cleaning identified above is required in either case.

If a color other than the natural wood aging is desired, apply a mineral spirits (solvent) based stain after the wood has dried, prior to applying Lifetime™. Apply the stain according to manufacturer's directions. After stain is thoroughly dry, the wood is now ready for Lifetime™ application. See page 5-2 of this catalog for complete details.

When applying Lifetime™ by sprayer, use long even strokes with the wood grain, overlapping each pass by moving approximately 4 inches (10 cm.). If puddling occurs, use a broom or similar object to spread the puddles immediately. **EXCESSIVE PRODUCT ON HORIZONTAL SURFACES WILL CAUSE THE SURFACE TO BECOME SLICK. ONE THIN COAT IS ALL THAT IS REQUIRED. TWO COATS OR ONE THICK ONE IS NOT NEEDED NOR RECOMMENDED.** Use a sprayer tip as recommended by rental store dealer or professional power washer compatible with the equipment being used.

When spraying, **ALWAYS USE PROPER MASK** for your own protection! Cover any objects in close proximity, i.e. shrubbery, windows, etc., to avoid a rubber film coverage from any overspray or wind drift.

Allow 1 - 2 hours before testing Lifetime™ for walking purposes. The wood is now ready to begin protecting from water penetration, although hopefully it can stay dry a couple of days before being tested by rain. Periodic cold water power washings, (max. 1,800 psi) perhaps every year or so, will remove surface grime, mildew, etc., and refresh the appearance to a newer look. Cold water power washing will not break down silicone rubber sealant. (See Application Guidelines on page 5-1 for additional information).

Lifetime™ Waterproofing Sealant System

CONCRETE TREATMENT:

New concrete should cure approximately two weeks before applying Lifetime™. If a curing agent other than water was used, i.e. paraffin or other chemicals, the concrete must first be power washed prior to applying Lifetime™. Wash with hot water (approx. 180°F/82°C) using degreasing detergent at approximately 2,000 to 2,200 psi, holding the nozzle a minimum of 6 inches (15 cm.) from the surface. Rinse thoroughly.

Let the concrete DRY THOROUGHLY before applying Lifetime™!

Drying time may take 3 - 5 days even in fair warm weather and low humidity. Lifetime™ can be applied to new concrete, cured with water, and kept free of traffic to the first two weeks, with no power wash i ng. However, make sure the concrete is thoroughly dry and clean before beginning application. Any used concrete must be power washed, using detergent and hot water, to remove dirt particles, grease, etc. in order for Lifetime™ to properly penetrate. Periodic cold water detergent power washes using maximum 1,800 psi pressure will refresh concrete, remove any grease, and oil accumulated, and provide a newer look.

When applying Lifetime™ by sprayer, use long even strokes, overlapping each pass by moving approximately 4 inches (10 cm.). If puddling occurs, use a broom or similar object to spread the puddles immediately. **EXCESSIVE PRODUCT ON HORIZONTAL SURFACES WILL CAUSE THE SURFACE TO BECOME SLICK. ONE THIN COAT IS ALL THAT IS REQUIRED. TWO COATS OR ONE THICK ONE IS NOT NEEDED NOR RECOMMENDED.** Use a sprayer tip as recommended by rental store dealer or professional power washer compatible with the equipment being used.

When spraying, **ALWAYS USE PROPER MASK** for your own protection! Cover any objects in close proximity, i.e. shrubbery, windows, etc., to avoid a rubber film coverage from any overspray or wind drift.

Also, be aware that concrete continues its curing cycle for many years. Therefore, like wood, it will shrink and draw with the passage of time. As this occurs, it may begin to accept some water penetration. If water penetration occurs, first clean the concrete with cold water detergent power washing, allowing ample days to dry. Then apply a second light coat of Lifetime™, and the concrete will again be protected from water penetration for several years. (See Application Guidelines for additional information).

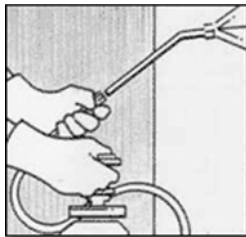
Lifetime™ Waterproofing Sealant System

APPLICATION METHODS

SPRAYING: Spraying can be used on vertical or horizontal surfaces.

For Best Results:

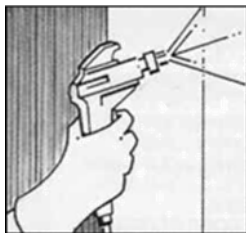
- Be sure the sprayer is clean and free from other chemicals
- The nozzle should remain 6-12 in from other chemicals
- Respray each section 2-3 times as penetration allows
- Backroll excess material that has not penetrated.
- On vertical surfaces, spray from top to bottom.
- Clean equipment with mineral spirits or paint thinner immediately after applying Lifetime™



COMPRESSED AIR TANK SPRAYER (with solvent resistant fittings)

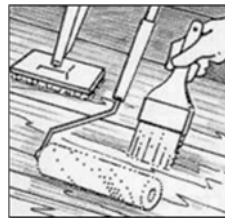
The sprayer can be used on vertical or horizontal surfaces, it is important to backroll excess material that has not penetrated. Always

be sure that the sprayer is clean and free from chemical or insecticide residue. Clean equipment with mineral spirits or paint thinner immediately after use of Lifetime™.



AIRLESS SPRAYER
Lifetime™ can be used with an airless sprayer if care is taken to use the equipment properly. To ensure proper application apply Lifetime™ with a 421 Contractor Spray Tip, not to exceed 500 psi. The

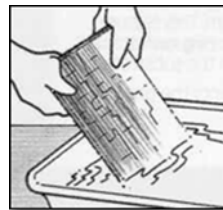
nozzle should remain 6-12 inches from the surface and move in straight even strokes. Clean equipment with mineral spirits or paint thinner immediately after use of Lifetime™.



BRUSH, ROLLER, PAINT PAD

Lifetime™ can be applied with a brush, roller or paint pad. Clean equipment with mineral spirits or paint thinner immediately after use of Lifetime™.

- 1 **Brush** may be either natural or foam
- 2 **Roller** can be foam, where dark lines are created by the ends of the roller, backroll them immediately.
- 3 **Paint Pad:** apply in a straight line and overlap with each stroke.



DIPPING

Shingles, shakes or wood siding can be dipped prior to installation. This is an effective way of applying Lifetime™. It assures complete coverage and thorough saturation of the front, back and ends of the

wood. You should wipe off excess material.

COVERAGE PER GALLON

Surface Type	Sq. Ft.	Sq. M.
Stucco	170	15.8
Wood Shingles	110	10.2
Fencing	125	11.6
Decking	140	13
Driveways / Concrete	150	13.9
Stone – smooth	170	15.8
Stone – rough	130	12
Exterior Brick	120	11.2

PLEASE NOTE: These are estimates and may vary considerably due to the porosity of the recipient material.

Lifetime™ Waterproofing Sealant System

The Lifetime™ Waterproofing Sealant System protects against graffiti in addition to its many other benefits. Lifetime™ penetrates and bonds with the substrate to create an invisible rubber barrier. Paint, dirt and grime do not make direct contact with the treated surface and also do not readily adhere to Lifetime™. Graffiti, pollution and other contaminants are easily removed with pressure washing.

The silicone rubber in Lifetime™ provides outstanding high and low temperature resistant properties as well as a general inertness toward deterioration. When cured, Lifetime™ cannot be broken down due to water, salts, oils, fuels, acids, paints, or other organic materials.

Lifetime™ will stand up to several high-pressure cleanings before reapplication is necessary. This gives building owners and maintenance staff very cost-effective protection. Lifetime™ can be used on all porous surfaces where protection from graffiti is needed.

Lifetime™ Waterproofing Sealant System is:

- A clear, long-lasting sealer easily applied by sprayer, roller, or brush.
- Protects all porous building materials: stucco, concrete, brick, block & wood
- VOC compliant
- Can be applied at temperatures well below freezing as long as there is no moisture in the substrate
- Elastomeric bridging of hairline cracks permits expansion and contraction, building movement
- Breathable. Permits moisture vapor to escape while protecting the surface from paint penetration

For Service, specification and on the job training, contact:

Pro Coatings, LLC
2236 Cahaba Valley Drive, Suite 100
Birmingham, AL 35242
www.pro-coatings.com
admin@pro-coatings.com
205-588-6865 | Fax: 205-564-0564



AREA WITH 2 COATS OF LIFETIME™ PLUS AND GRAFFITI WAS APPLIED TO SAMPLE



USING HOT WATER AT 3000 PSI TO REMOVE GRAFFITI



FINISHING REMOVAL OF GRAFFITI



EIGHT HOURS AFTER COMPLETION
NO EVIDENCE OF GRAFFITI

Lifetime™ Waterproofing Sealant System

TODAY'S DATE: _____

PROJECT NAME: _____

ADDRESS: _____

CITY/ST/PROVINCE/ZIP: _____

OWNER'S NAME: _____

ADDRESS: _____

CITY/ST/PROVINCE/ZIP: _____

CONTACT NAME: _____

PHONE NUMBER: _____

TYPE OF WARRANTY REQUESTED:

_____ YEAR VERTICAL () _____ YEAR HORIZONTAL ()

APPLICATION INFORMATION

PRODUCT USED:

_____ LIFETIME™ _____ LIFETIME™ PLUS

SUBSTRATE:

_____ AGGREGATE
_____ BRICK
_____ CONCRETE
_____ CONCRETE – CAST IN PLACE
_____ CONCRETE - PRECAST
_____ LIGHTWEIGHT CONCRETE BLOCK
_____ STONE
_____ STUCCO
_____ OTHER – EXPLAIN _____

_____ TOTAL SQ FT _____ GALLONS USED

TEST LOCATION ON STRUCTURE: _____

TESTED BY: _____ TEST DATE: _____

Lifetime™ Waterproofing Sealant System

We, _____, on _____.
Contractor's Name Date

Completed installation of the above referenced project in accordance with the standard Pro Coatings specifications for Lifetime™ Waterproofing Sealant. All relevant details and pre-approved deviations from the written standard are attached. We request final inspections for warranty issuance on this project.

SPECIFICATION / JOB REFERENCE #: _____

APPROVED APPLICATOR: _____

SUPERVISOR: _____

ADDRESS: _____

CITY/STATE/PROVINCE/ZIP CODE: _____

AUTHORIZED SIGNATURE: _____

NAME PRINTED: _____

TITLE: _____

DISTRIBUTOR INFORMATION:

DISTRIBUTOR: _____

ADDRESS: _____

CITY/STATE/PROVINCE/ZIP: _____

PHONE NUMBER: _____

WARRANTY FEE: _____

Warranty fee should accompany this request. No warranty will be issued until applicable warranty fee has been paid to Pro Coatings, LLC and all product invoices have been paid.

Lifetime™ Waterproofing Sealant System

20 YEAR WARRANTY – VERTICAL

Project: _____ Completion Date: _____

Pro Coatings, LLC guarantees to:

(Buyer / Owner)

(Street Address)

(City, State/Province, Zip Code)

(Telephone)

That Lifetime™ Waterproofing Sealant (the product) purchased for the referenced project is free from manufacturing defects when applied in connection with the project for a period of TWENTY (20) YEARS from the date of application ("Date of Application" means the date on which application of the product is completed on the project as herein noted).

THIS WARRANTY IS EXPRESSLY IN LIEU OF ANY OTHER EXPRESS OR IMPLIED WARRANTIES, INCLUDING ANY IMPLIED WARRANTY OF MERCHANTABILITY OR FITNESS, AND OF ANY OTHER OBLIGATION ON THE PART OF PRO COATINGS, LLC FOR CONSEQUENTIAL OR INCIDENT DAMAGES OF ANY KIND. CLAIM UNDER THIS WARRANTY IS LIMITED AT PRO COATINGS LLC'S OPTION TO EITHER REPLACEMENT OF PRODUCT NECESSARY TO REMEDY THE PROBLEM AND NOT TO EXCEED THE SAME AMOUNT SOLD OR TO REFUND AN AMOUNT EQUAL TO PRO COATINGS LLC'S COST OF AN EQUAL AMOUNT OF PRODUCT SOLD. FREIGHT CHARGES FOR REPLACEMENT OF PRODUCT ARE THE SOLE RESPONSIBILITY OF BUYER/OWNER.

No agent, employee or representative of the seller has any authority to bind the seller has an authority to bind the seller to any affirmation, representation or warranty concerning the goods sold under this contract, and unless an affirmation, representation or warranty is specifically included within this agreement, it shall not be enforceable by the Buyer / Owner.

The within warranty applies only when the product is used in accordance with the directions for use as provided by Pro Coatings, LLC for the referenced project.

Only defects existing at the time of the sale of the product are covered by this warranty.

Lifetime™ Waterproofing Sealant System

This warranty shall not cover damages resulting from any of the following conditions: (1) natural disaster including, without limitations, fires, floods, wind, lightning and earthquakes; (2) damages resulting from either structural failures or cracking of surfaces, whether existing before or after application of the product; (3) damages to the project structure or its contents; (4) changes in the use of the structure; or (5) damages resulting from new installations, repairs or modifications to the surfaces after application of the product.

This warranty is extended only to the buyer / owner's name herein and does not extend to successors or assigns unless expressly so extended in writing by PRO COATINGS LLC.

Claims under this warranty must be submitted in writing to PRO COATINGS LLC. within thirty (30) days of discovery of defect. Claim forms are available from PRO COATINGS LLC. All claims must be approved by PRO COATINGS LLC at its home office in Birmingham, Alabama.

PRO COATINGS, LLC

DATED: _____

By: _____
Authorized Signature

Title: _____

Lifetime™ Waterproofing Sealant System

5 YEAR WARRANTY – HORIZONTAL

Project: _____ Completion Date: _____

Pro Coatings, LLC guarantees to:

(Buyer / Owner)

(Street Address)

(City, State/Province, Zip Code)

(Telephone)

That Lifetime™ Waterproofing Sealant (the product) purchased for the referenced project is free from manufacturing defects when applied in connection with the project for a period of FIVE (5) YEARS from the date of application (“Date of Application” means the date on which application of the product is completed on the project as herein noted).

THIS WARRANTY IS EXPRESSLY IN LIEU OF ANY OTHER EXPRESS OR IMPLIED WARRANTIES, INCLUDING ANY IMPLIED WARRANTY OF MERCHANTABILITY OR FITNESS, AND OF ANY OTHER OBLIGATION ON THE PART OF PRO COATINGS, LLC FOR CONSEQUENTIAL OR INCIDENT DAMAGES OF ANY KIND. CLAIM UNDER THIS WARRANTY IS LIMITED AT PRO COATINGS LLC’S OPTION TO EITHER REPLACEMENT OF PRODUCT NECESSARY TO REMEDY THE PROBLEM AND NOT TO EXCEED THE SAME AMOUNT SOLD OR TO REFUND AN AMOUNT EQUAL TO PRO COATINGS LLC’S COST OF AN EQUAL AMOUNT OF PRODUCT SOLD. FREIGHT CHARGES FOR REPLACEMENT OF PRODUCT ARE THE SOLE RESPONSIBILITY OF BUYER/OWNER.

No agent, employee or representative of the seller has any authority to bind the seller has an authority to bind the seller to any affirmation, representation or warranty concerning the goods sold under this contract, and unless an affirmation, representation or warranty is specifically included within this agreement, it shall not be enforceable by the Buyer / Owner.

The within warranty applies only when the product is used in accordance with the directions for use as provided by Pro Coatings, LLC for the referenced project.

Only defects existing at the time of the sale of the product are covered by this warranty.

Lifetime™ Waterproofing Sealant System

This warranty shall not cover damages resulting from any of the following conditions: (1) natural disaster including, without limitations, fires, floods, wind, lightning and earthquakes; (2) damages resulting from either structural failures or cracking of surfaces, whether existing before or after application of the product; (3) damages to the project structure or its contents; (4) changes in the use of the structure; or (5) damages resulting from new installations, repairs or modifications to the surfaces after application of the product.

This warranty is extended only to the buyer / owner's name herein and does not extend to successors or assigns unless expressly so extended in writing by PRO COATINGS LLC.

Claims under this warranty must be submitted in writing to PRO COATINGS LLC. within thirty (30) days of discovery of defect. Claim forms are available from PRO COATINGS LLC. All claims must be approved by PRO COATINGS LLC at its home office in Birmingham, Alabama.

PRO COATINGS, LLC

DATED: _____

By: _____
Authorized Signature

Title: _____

Lifetime™ Waterproofing Sealant System

LIFETIME™ SEALANT WARRANTY

Lifetime™ Waterproofing Sealant is a quality waterproofing Room Temperature Vulcanized (RTV) Silicone Rubber Sealant for application on porous substrates. Lifetime™ Sealant Products, Inc. warrants Lifetime™ to be free from manufacturing defects. In the event of a defect, Lifetime™ Sealant Products, Inc. will replace the product necessary, free of charge, or at its option, refund purchaser an amount equal to the amount paid for the Lifetime™ product, for application to the affected area. This offer is extended to the original purchaser upon presentation of receipt or other proof of purchase. This warranty covers only failures in performance occurring under normal use and in accordance with application guidelines.

WARRANTY LIMITATIONS AND EXCLUSIONS

There are no express warranties except as stated herein. Incidental or consequential claims of damage, resulting injuries, or physical and / or mental impairments which result from breach of warranty, breach of application guidelines, or otherwise from the use of Lifetime™ Sealant are specifically excluded from this warranty and are deemed to have occurred beyond any obligation(s), or affiliates. Lifetime™ is a penetrating sealer and the company specifically excludes any liability for normal surface wear and composition or state of materials on which Lifetime™ Waterproofing Sealant is applied.

Lifetime™ Waterproofing Sealant System

LIFETIME™ WATERPROOFING SEALANT has been developed to be used on concrete, masonry, wood, stucco, canvas, and other porous substrates to prevent water penetration. This preserves and enhances the life of the structure.

VOC COMPLIANT – Lifetime™ meets all local and U.S. Federal VOC compliance regulations. Consult Pro Coatings, LLC for information outside North America.

ANTI-GRAFFITI – Graffiti can easily be removed by pressure washing the treated surface. Lifetime™ forms a membrane to which paint does not readily adhere.

ONE PENETRATING COAT – Saves labor and material. Completely covers and penetrates a clean and dry surface in just one coat.

FLEXIBILITY – after curing allows for expansion, contraction, building movement and temperature extremes.

BREATHABILITY – Watertight bond allows moisture vapor to escape while permitting no penetration of liquids.

WILL NOT HARDEN OR YELLOW WITH AGE

CURES for traffic in one hour or less.

INORGANIC – In its dried state it cannot be broken down due to water, salts, oils, fuels, acids, or other organic materials.

CONTAINS UV BLOCKER which retards effect of ultraviolet rays from the sun.

CONTAINS MILDEWCIDE AND FUNGICIDE

CURED PROPERTIES (Solid State)

Perm Rate ASTM E96-66	7.26
Permanence in contact with liquid water	
U.S. Perms	4.5
Grains/hr. ft ² in Hg	1.9

ASTM 412:

Elongation (Std. Dev. = 64)	435%
Tensile strength (Std. Dev. = 76)	342psi

ASTM 412:

Brittle Point	Less than – 73° C
	Less than – 100° F

Linear Coefficient of Thermal Expansion (inch/inch/°F)	0.0007*
Durometer hardness, Shore A	20-30

Thermal Conductivity (BTU in/hr. ft. ²)	2.3
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Maximum Service Temperature	450°F/ 232°C
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* The coefficient of thermal expansion was not determined; this value is typical value for this type of silicone rubber.

UNCURED PROPERTIES (Liquid State):

Color	Translucent
Consistency	Pourable
Weight per Gallon	9.0 pounds
Flash Point (ASTM D-93)	106°F/41°C
Boiling Point	320-380°F/160-193°C
Vapor Pressure (mm Hg.)	2.6
Vapor Density (Air = 1)	4.78
Viscosity	25,000-35,000
Application Temp.	Above dew Point from -20°F to +90°F/-29°C to +32°C
Packaging	One & five gallon containers and 55 U.S. gallon barrels.
Shelf Life	6 months unopened

Lifetime™ Waterproofing Sealant System

PROJECT: OFFICE BUILDING WITH A 20 YEAR LEAKPROOF WARRANTY USING LIFETIME™ SEALANT

SUBSTRATE: BRICK EXTERIOR WALLS



DESCRIPTION: This office building is being coated with Lifetime™ Waterproofing Sealant at a rate of 65 square feet (6 sq meters) per gallon. Prior to The application of the waterproofing the building was power washed and all the tuck pointing and caulking had been completed. The building now carries a twenty (20) year warranty against leakage.

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Lifetime™ Waterproofing Sealant System

PROJECT: SENIOR HEALTH CARE CENTER WATERPROOFED WITH LIFETIME™ PLUS

SUBSTRATE: EXTERIOR GROUND FACED BLOCK



DESCRIPTION: This Senior Health building is coated with the Lifetime™ Waterproofing system. The building was power washed, some tuck pointing was done, and all control joints were recaulked.

Lifetime™ Plus was installed to the block surface at the rate of 100 square feet (9.3 square meters) per gallon. A twenty (20) year warranty can be issued for this system.

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