

Exterior Wood Stain & Finishes

Lifeline Exterior™

Our Value Priced Exterior Wall Stain

Our original exterior wall formula has been updated and improved for over 20 years. *Lifeline Exterior* forms a thin film at the surface of logs where the protection is needed.

Its breathability and flexibility allows logs to go through seasonal expansion and contraction while drying out to their core. Apply a clear top coat of *Lifeline Advance* to maximize durability and minimize maintenance cost and labor.



- Clear coat with *Lifeline Advance* to complete the system
- Excellent UV protection
- Easy application
- Easy maintenance
- Breathable film allows logs to dry out
- High coverage rates
- Long lasting color retention
- Dries fast to allow two coat application the same day
- Environmentally friendly
- Compatible with all Perma-Chink Systems wood care products

Surface Preparation:
Must be applied to clean, dry surface.

Application Rates:
1st coat - 350 - 450 sq.ft. per gallon.
2nd coat - 600-800 sq.ft. per gallon.

Application Temperature:
40° F to 90° F

Application Methods:
Airless sprayer.
Brush.

of Coats:
Two coats application.
Topcoat with Advance Gloss or Satin Clear Topcoat.

Drying Time:
Dry to the touch in 2 to 4 hours. Cures in 72 hours.

Clean up:
Soap and water.

Packaging:
1 gallon container.
5 gallon pail.
Samples available.

Storage/Shelf Life:
Freeze/thaw stable.



Butternut #154



Dark Honey #122



Dark Natural #130



Hazelnut #170



Cinnamon #174



Walnut #165



Driftwood #161



Stone Gray #163



Gentry Gray #142

Application techniques, wood species and other factors will affect the actual color when finished. We supply samples for evaluation on your specific wood.



Washington 1-800-548-1231; Tennessee 1-800-548-3554; Montana 1-800-479-7090;
Minnesota 1-877-244-6548; Colorado 1-800-433-8781
www.permachink.com



LIFELINE™**FOR LOG HOMES, TIMBERS,
WOOD SIDING
AND TRIM****EXterior**

- Long Lasting Protection
- Resists Water Penetration
- Allows Wood to Breathe
- Easy Application
- UV Protection
- Soap and Water Clean Up

Color**CAUTION - DO NOT TAKE INTERNALLY****STIR WELL BEFORE USING****PERMA-CHINK®
SYSTEMS, INC.**www.permachink.comEastern Division
1-800-548-3554Western Division
1-800-548-1231Colorado
1-800-433-8781Montana
1-800-479-7090Minnesota
1-877-244-6548**1.0 gallon (approx. 3.8 liters)****Made in USA****LIFELINE™ Exterior Semi-Transparent Stain****STEP #1: INSPECTION**

Check for deterioration and decay. Remove and replace or repair deteriorated wood. Unsound wood should be repaired prior to applying LIFELINE Exterior.

STEP #2: SURFACE PREPARATION

All surfaces should be free from mill glaze and contaminants including dirt, dust, mold and mildew, old finishes, water repellents and wax. Use appropriate materials to clean and prepare surfaces. If a wood preservative has been previously applied, make sure it is completely dry before applying LIFELINE Exterior. If the surface is tacky or there are visible deposits on the wood, wash the surface with water and allow to dry. **DO NOT USE LIFELINE Exterior ON SURFACES THAT HAVE BEEN BRUSHED OR RUBBED WITH STEEL WOOL. IF YOU DO, RUST SPOTS MAY APPEAR UNDER THE FINISH.** If more than a week has passed since the surface has been stripped or cleaned, wash down the logs with an appropriate cleaning solution such as Log Wash™, rinse well and allow to dry before applying LIFELINE Exterior.

If the surface has been media blasted or if the wood is rough and/or porous, apply a coat of After Blast™ Surface Sealer prior to the LIFELINE Exterior application. This will ensure proper color generation and add an extra measure of protection to the wood.

STEP #3: APPLICATION

COVERAGE RATE Coverage is approximately 350-450 square feet per gallon for the first coat and approximately 600-800 square feet per gallon for subsequent coats depending on wood type and porosity. **DO NOT USE THINNERS.**

STIR THOROUGHLY before and regularly during use. Wear rubber gloves to avoid stains to the skin and fingernails. If multiple containers are used on the job, they should be poured together to ensure color consistency. LIFELINE Exterior can be applied with a brush or airless sprayer. **DO NOT APPLY TO HOT SURFACES OR IN DIRECT SUNLIGHT.** Do not apply when the surface temperature is below 40° F or above 90° F. **Back brushing is required** to work the finish into the wood for optimum performance. Apply LIFELINE Exterior in thin coats and always keep a "wet edge" to avoid lap marks.

Wait for the first coat to dry (at least two hours depending on temperature and humidity) then apply a second coat. Always back brush to ensure even coverage and to avoid visible drips and runs.

Once the LIFELINE Exterior has dried and you are satisfied with the appearance, we strongly recommend the application of one or two coats of LIFELINE ADVANCE Gloss or Satin clear topcoat. LIFELINE ADVANCE exterior clear topcoats enhance the beauty of the finish and play a significant role in protecting the wood against water, mold, and UV light, thus extending the life of the stain. Follow the product application directions when applying any topcoat.

STEP #4: CLEANUP

Clean area and equipment immediately with warm, soapy water. For sprayers and other commercial equipment, follow the manufacturer's directions. For removing LIFELINE Exterior that has dried, soften with alcohol or mineral spirits and then clean with warm water. Please do not pollute our environment. Dispose of containers and unused material in accordance with local, state, and federal regulations.

STEP #5: MAINTENANCE

Periodic cleaning with an appropriate cleaner such as Log Wash™ helps extend the life of the finish and accentuates the beauty of your home. We recommend that log walls be washed down at least twice a year. Wood checking, cracking and shrinkage may eventually expose unprotected wood. Apply periodic maintenance coats as needed paying special attention to the south and west sides of the home as they may have greater exposure to the elements.

STEP #6: STORAGE

Store LIFELINE Exterior out of direct sunlight and **protect from freezing.** Although LIFELINE Exterior is freeze-thaw stable, if the product is accidentally frozen, allow to thaw, mix well and check for suitability of use before applying.

Request a copy of "Caring For Your Dream Home" from any Perma-Chink Systems office for additional information about applying and maintaining LIFELINE stains and finishes.

Rev 8/06

**PERMA-CHINK®
SYSTEMS, INC.****LIMITED WARRANTY**

Perma-Chink Systems, Inc. warrants and represents that Perma-Chink Systems Family of Products will conform to the description and specifications previously set forth and be free from defects in material and workmanship when shipped to the buyer. EXCEPT WHEN HEREIN EXPRESSLY STATED, THERE ARE NO WARRANTIES, EXPRESSED OR IMPLIED, BY OPERATION OF LAW OR OTHERWISE, APPLICABLE TO THE PERMA-CHINK LOG HOME PRODUCT. PERMA-CHINK SYSTEMS EXPRESSLY DISCLAIMS ANY IMPLIED WARRANTY OF MERCHANTABILITY OR FITNESS FOR A PARTICULAR PURPOSE.

Material Safety Data Sheet

IDENTITY (As Used on Label and List)

LIFELINE EXTERIOR



Section I

Manufacture's Name Perma-Chink Systems, Inc.	Emergency Telephone Number: CHEMTREC 1-800-424-9300
Address (Number, Street, City, State, and ZIP code) 1605 Prosser Road	Telephone Number for Information: 865-524-7343
Knoxville, TN 37914	Date of Preparation 8/17/09
Preparer's Name Sean Gahan	Signature of Preparer (optional)

Section II – Hazardous Ingredients/Identity Information

Hazardous Component (Specific Chemical Identity, Common Name(s))	CAS #	OSHA / PEL	ACGIH TLV	Other Limits Recommended	% (optional)
Ethylene Glycol	107-21-1	50 ppm	100 mg/m ³		
Silicon Dioxide, Crystalline free	112945-52-9	N/A	10 mg/m ³		

Section III – Physical/Chemical Characteristics

Boiling Point: 212 °F	Specific Gravity (H ₂ O = 1) 1.02 – 1.06
Vapor Pressure (mm Hg.) N/A	Melting Point % Volatile (Volume) 78-83%
Vapor Density (Air = 1) >1	Evaporation Rate (Butyl Acetate = 1) > 1
Solubility in Water Miscible with water; insoluble in most petroleum solvents	
Appearance and Odor Milky white or pigmented liquid; characteristic latex order	VOC: 250 g/L MAX.

Section IV – Fire and Explosion Hazard Data

Flash Point (Method Used) None	Flammable Limitations N/A
Extinguishing Media CO ₂ , dry chemical, foam	
Special Fire Fighting Procedures Use water spray to cool fire-exposed containers	

Unusual Fire and Explosion Hazards

Pressure may build up in closed containers that are exposed to fire or extreme high temperatures.

Section V – Reactivity Data

Stability	Unstable		Conditions to Avoid
	Stable	■	None Known
Incompatibility (Materials to Avoid) None known			
Hazardous Decomposition or Byproducts			Under extreme heat product may form oxides of nitrogen and carbon
Hazardous Polymerization	May Occur		Conditions to Avoid
	Will Not Occur	■	None Known

Section VI – Health Hazard Data

Routes of Entry Inhalation? NO Skin? YES Ingestion? YES Eye Contact? YES

Health Hazards (Acute and Chronic)

EYE CONTACT: May cause eye redness or irritation. **INHALATION:** Inhalation of vapors may cause headache or dizziness.

INGESTION: May cause gastrointestinal irritation. **SKIN:** May cause temporary redness or skin rash.

Carcinogenicity? NO NTP? NO IARC Monographs? NO OSHA Regulated? NO

No long term adverse effect are known.

Signs and Symptoms of Exposure: None known

Medical Conditions: None known

Emergency and First Aid Procedures:

Eye contact: Flush with clean water for at least 15 minutes; seek medical attention.

Ingestion: Give two glasses of water or milk to dilute. If irritation develops, seek medical attention.

Skin contact: Wash affected area with soap and water.

Inhalation: If vapors are inhaled, move individual to fresh air. If respiratory irritation develops, seek medical attention.

Section VII – Precautions for Safe Handling and Use

Steps to be taken in Case Material is Released or Spilled

Dike spill. Absorb with inert material and collect for disposal. Do not allow material or washings to enter waterways.

Waste Disposal Method

Dispose of material in accordance with all applicable Federal, State, and Local regulations

Precautions to be taken in Handling and Storing

Read and Observe all precautions on the product label. **KEEP OUT OF REACH OF CHILDREN.**

Other Precautions

Keep product from freezing.

Section VIII – Control Measures

Respiratory Protection (Specify Type)

Wear a NIOSH approved organic vapor respirator.

Ventilation Local Exhaust

Provide adequate ventilation.

Special

Mechanical (general)

Other

Protective Gloves

Chemical resistant gloves are recommended.

Eye Protection

Goggles or safety glasses

Other Protective Clothing or Equipment

Wear long pants and shirt while applying product to protect skin from direct contact.

Work/Hygenic Practices: Wash hands thoroughly before eating, drinking, smoking or using the restroom.

The information contained herein is, to the best of Perma-Chink Systems, Inc. knowledge, accurate as of the data indicated. Since the information contained herein may be applied under conditions beyond our control and with which we may be unfamiliar, and since data made available subsequent to the date hereof may suggest modifications of the information, we do not assume responsibility for the results of its use. This information is furnished on the condition that the person receiving it shall make his own determination as to the suitability of the material for his particular purpose and on the condition that he assumes the risk of his use thereof.