

Exterior Wood Stain & Finishes

Log End Seal™

Protect Exposed End-Grain from the Elements

Surface Preparation:
Must be applied to clean, dry surface.
Sand log ends before applying Lifeline stain.

Application Rates:
30 to 40 sq.ft. per gallon.
One gallon will coat approx. 180 six inch diameter log ends or 100 eight inch diameter log ends.

Application Temperature:
40° F to 90° F

Application Methods:
Paint pad or sponge.
Short bristled brush.

of Coats:
One coat application.

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

Clean up:
Soap and water.

Packaging:
1 gallon container.

Storage/Shelf Life:
DO NOT FREEZE!
1 year.

The end-grain of wood is particularly vulnerable to sun, rain, snow and ice, which can lead to excessive cracks and checks. End-grain can also act like tiny straws, drawing excessive moisture into the wood. *Log End Seal* provides a durable, water-repellent barrier against these problems before they begin.



Prelude™

A Clear Primer for Porous Wood Surfaces

One coat of *Prelude* Clear Wood Primer fills the pores of the wood and provides a surface that enables you to obtain a more uniform finish color over the entire home.

Prelude Clear Wood Primer also contains *UV Boost* for added UV protection. *Prelude* is a primer and should never be used as a final finish.



Not Sealed with Prelude

Sealed with Prelude



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

Application Rates:
200 to 400 sq.ft. per gallon depending on the porosity of the wood.

Application Temperature:
40° F to 90° F

Application Methods:
Airless sprayer.
Brush. Backbrush to ensure even coverage.

of Coats:
One coat application.

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.
1 year.

UV Boost™

Additional Protection for High Sun Exposure Areas

Note: *Lifeline Ultra-2*, *Lifeline Ultra-1 Professional* and *Prelude* already contain *UV Boost*.

The addition of *UV Boost* to the first coat of any of our other finishes imparts additional protection against fading and graying. It is especially useful in interior finishes to reduce the "picture frame" effect on walls and carpeted floors. Since *UV Boost* must be in contact with bare wood for it to be effective, it only needs to be added to the first coat of finish.

Container Sizes

For adding to one gallon and five gallons of finish.



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

**PERMA-CHINK
SYSTEMS, INC.**



Clear Log End Sealant

Log End Seal is designed to protect exposed log ends from deterioration due to the elements. Sunlight, wind, rain, snow, and ice all play a role in degrading wood surfaces. This is especially true for log ends where the end grain is exposed and cracks and checks are prone to develop. Even if the ends are coated with a quality stain, the exposed end grain of the wood acts like small straws drawing water into the log. This gives rot and decay an opportunity to start. If left unprotected, log or log corner replacement may eventually be required.

Contents: 1 Gallon (approx. 3.7 liters)

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Log End Seal is a clear finish that prevents water from penetrating into log ends thus providing a layer of protection against sun, wind, and weather damage.

APPLICATION STEPS

1. Thoroughly sand all exposed log ends, taking care not to leave heavy sanding marks or gouges.
2. Apply any Lifeline™ brand exterior stain to the entire home, including the log ends.
3. When the Lifeline stain has dried, apply Log End Seal with a brush, pad or trowel taking care to completely cover the exposed log end. Try to avoid leaving brush marks or uncoated areas on the ends. Wipe off any excess that may have worked its way onto the sides of the logs.
4. Let the Log End Seal dry and finish with a Lifeline topcoat over the entire home.

Clean-Up

Wash equipment and brushes with soap and warm water. Dried Log End Seal may be removed with alcohol.

CAUTION - DO NOT TAKE INTERNALLY



Eastern Division	1-800-548-3554
Western Division	1-800-548-1231
Colorado	1-800-433-8781
Montana	1-800-479-7090
Minnesota	1-877-244-6548

Material Safety Data Sheet

IDENTITY (As Used on Label and List)

LOG END SEAL

Section I

Manufacturer'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 4/01/04
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)
None known				

Section III – Physical/Chemical Characteristics

Boiling Point: 212 °F	Specific Gravity (H ₂ O = 1) 1.10
Vapor Pressure (mm Hg.) N/A	Melting Point % Volatile (Volume)
Vapor Density (Air = 1) >1	Evaporation Rate (Butyl Acetate = 1) > 1
Solubility in Water Miscible	
Appearance and Odor Viscous white paste with characteristic latex odor.	VOC (less water) 92g/1

Section IV – Fire and Explosion Hazard Data

Flash Point (Method Used) N/A	Flammable Limitations N/A
Extinguishing Media CO ₂ , dry chemical, foam or dry chemical fire fighting apparatus	
Special Fire Fighting Procedures Use SCBA and complete personal protection equipment. Remove all ignition sources. Use water spray to cool containers.	

Unusual Fire and Explosion Hazards

Closed containers may rupture due to pressure build-up in presence of high temperature.

Section V – Reactivity Data

Stability	Unstable		Conditions to Avoid
	Stable	✓	None Known
Incompatibility (Materials to Avoid) No specific information available.			
Hazardous Decomposition or Byproducts		Under extreme heat product may form oxides of nitrogen oxides and other toxic compounds.	
Hazardous Polymerization	May Occur		Conditions to Avoid
	Will Not Occur	✓	Excessive heat may cause container rupture

Section VI – Health Hazard Data

Routes of Entry Inhalation? YES Skin? YES Ingestion? YES

Health Hazards (Acute and Chronic)

Eye Contact: May cause irritation, redness. Inhalation: May cause irritation of nose and throat

Ingestion: May be harmful or fatal. Skin Contact: Irritation possible in sensitive individuals.

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

No long-term adverse effects 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.

Skin contact: Wipe excess material away. Wash affected area thoroughly with soap and water.

Inhalation: If vapors are inhaled, move individual to fresh air. Seek medical attention if irritation develops or breathing becomes difficult

Section VII – Precautions for Safe Handling and Use

Steps to be taken in Case Material is Released or Spilled

Dike spills – Absorb with inert material and collect for disposal. Flush area with water. Do not allow material or washings to enter waterways.

Waste Disposal Method

Solid or coagulated material may be landfilled. Consult 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. Store between 40° F - 90° F.

Section VIII – Control Measures

Respiratory Protection (Specify Type)

Wear NIOSH – approved organic vapor respirator if high vapor concentration is present.

Ventilation Local Exhaust
Yes, if sprayed indoors.

Special

Mechanical (general)

Other

Protective Gloves

Rubber gloves recommended if prolonged skin contact likely.

Eye Protection

Goggles or safety glasses if eye contact is likely.

Other Protective Clothing or Equipment

Maintain eyewash facilities at point of use.

Work/Hygienic Practices

General care and hygiene.

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.