LOG BUILDER

The Sealant Made for Log Structures
Le Matériau D'étanchéité Exprés pour les Constructions en Rodins

Ordinary caulks crack and peel away from logs. Not Log Builder—it creates a lasting seal, preventing gaps and cracks in your exterior.

Log Builder stretches with log movement

All logs move. So Log Builder was specifically designed to absorb most log movement. Most movement occurs within the first few years, when logs lose the majority of their moisture causing them to shrink and the joints to expand. That's why it's crucial to use Log Builder from the start. If the logs are extremely "green" (with very high moisture content) it is often best to wait several months before caulking. Since it stretches and compresses up to 100% of the original joint size and stays *elastic*, Log Builder won't crack, peel or pull away from your logs. Instead, it creates a tight seal to keep water, dust, bugs and wind from seeping into your home—for *many* years.

Spans gaps up to 2" wide

Due to its elasticity, Log Builder flexes as the joint size expands and contracts (even up to 2" wide). So one application is all you need. Unlike other caulks, Log Builder doesn't dry hard and crack. Apply it once, and forget about yearly repeat jobs. It's that simple!

Between chinkless logs.

Fill checks and cracks.

Safe and easy to use

Because it's a water-based caulk, Log Builder is low in toxicity and environmentally safe. It meets tough government regulations and can be used anywhere in the U.S.

Log Builder's smooth consistency makes for easy gunning and tooling. Just use a little water to tool: a foam sponge creates less mess for tooling and is easier than using your finger. Clean-up is a snap—water is all you'll need.

Versatile

Not only does Log Builder have powerful adhesion to sound wood—it sticks to a lot more. Granted, you want your sealant to have superior adhesion to all species of wood, but Log Builder adheres to a variety of surfaces. After all, your log home doesn't just consist of wood. What about windows, doors and baseboards made of a different material? Log Builder sticks to most building materials including glass, plastics and metals. So you can seal around those windows, doors and baseboards effectively. And you can fill checks and cracks since Log Builder adheres to most stains too. (Check with Sashco for stain compatibility.)
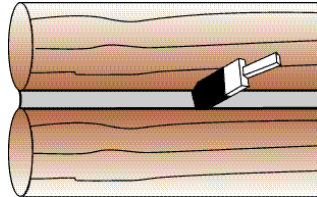
Durable

Log Builder has superior water resistance. Plus excellent resistance to UV rays. Once cured, it withstands damp and humid conditions (though not recommended for continuous submersion), minimizes washout, and holds up to blasts of dirt and sand from the wind. It stays put for life when applied according to our instructions (see our Data Tec and warranty).

The Basics in Applying Log Builder

1. For best results, read this entire Data Tec before applying product.
1. Start with clean and sound logs that have already been treated with a preservative and stain compatible with Log Builder. (We recommend PeneTreat Wood Preservative, Capture/Cascade Staining System, High Sierra Log Stain, or Symphony Interior Clear Coat.)

2. Install a "bond-breaker," i.e., backer rod, or mylar tape.

3. Apply Log Builder with a standard caulking gun, bulk loading gun, or Sashco's patented Snorkler™ Pump.

4. Tool Log Builder tightly to the log surface.

Application Tips
Surface Preparation

Surfaces should be clean, structurally sound and free of uncured oils, dirt, weathered wood and other loose materials. Log Builder may be applied to slightly damp (not wet) surfaces Sunlight, according to the USDA Forest Products Labs, can create unsound wood in as little as 1-2 weeks. So, caulk shortly after good prep work is done.

Wood Treatment: A good wood treatment is recommended for exterior surfaces and most should be applied *before* applying Log Builder. Wood sealers, preservatives, or stains should be thoroughly cured before application of Log Builder.

A few sealers, especially those high in wax content or non-drying oils, may interfere with adhesion. Sashco maintains a list of some of the treatments which should be applied *after* applying Log Builder, making sure the Log Builder is thoroughly cured. Check with Sashco for a more complete listing of compatible coatings.*
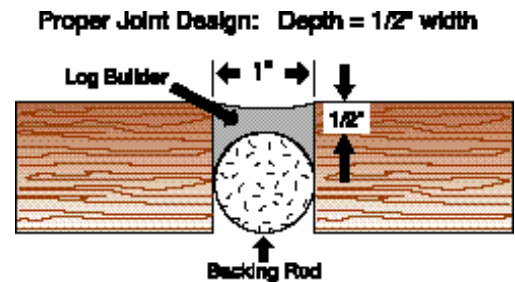
Sashco can also test the compatibility of stains. Please allow a minimum of 6 weeks for testing.

If a stain is applied over Log Builder, it will be tinted the stain color, but will be affected differently than the surrounding wood.

Surface Temperature: Surfaces should be between 40°F and 90°F when applying Log Builder. Avoid applying in direct sun.

Joint Design

Proper Joint Design: Depth = 1/2" width

Joint width should be a minimum of 1/4", but no larger than 2", and 4 times the anticipated joint movement. For example, if you anticipate log movement of 1/8", bead width should be 3/8" to 1/2". *Call Sashco for more information.

For joints 1" or more, the depth should be 3/8" to 1/2". The depth of joints less than 1" wide should be half the width but no less than 1/4". (Joint depth, overall, should be between 1/4" and 1/2".)

Methods of Application

When using 5-gallon pails, Sashco's patented Snorkler™ Pumping System, grout bags, or bulk loading guns may be used. Use a caulking gun when using either the 29 oz. or 10.5 oz. cartridges of Log Builder. Log Builder requires no heating prior to application, but will dispense easier when kept warm before use.

When using a cartridge, cut the spout at 45° angle to desired bead size. At 70°F and 40% relative humidity, Log Builder will be able to resist a short, light rain after 4 hours of drying time. If temperatures, at the time of application, are in the 50's or less and/or the relative humidity is higher than 60%, protect Log Builder with plastic sheeting for 3-5 days before exposure to rain. Not recommended for continuous submersion or areas exposed to foot or vehicular traffic.

Tooling

Log Builder should be tooled directly after application to ensure good adhesion and a smooth looking bead. Log Builder may be tooled with ordinary masonry-type tooling blades, a wetted finger, or a damp polyethylene foam brush.

Work the material smooth, tooling Log Builder tightly to the surfaces, keeping a rag handy to pick up drips.

Checks and Cracks

Because of the logs' tendency to take on water from rain and snow through cracks and checks, it is important to pay close attention to these openings and prep and seal them properly. Note: Most small checks should not be caulked. Only the larger ones, which admit the greatest volume of water, (1/4" or larger)
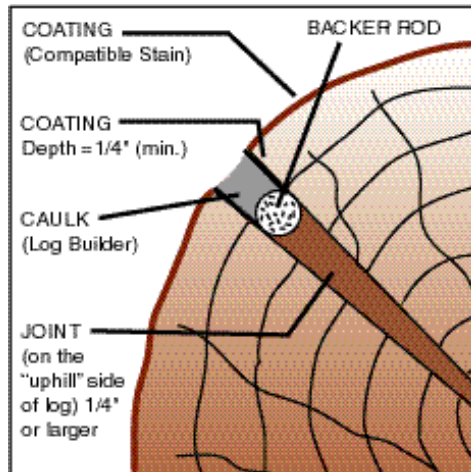
should be sealed with backer rod and caulk.

Ideal Treatment of a check:
The inside "lips" of the check need to be cleaned of dirt and unsound wood, then coated with a compatible stain (i.e. Capture or High Sierra Log Stain). Checks on the downhill side can—optionally—be filled for the best overall seal for the entire wall.

1. Thoroughly clean the inside surfaces of checks (for optimal caulk adhesion later) to remove dirt and unsound wood.

2. Apply backer rod to checks 1/4" or wider before staining and caulking. **Note:** If you want the caulking (Log Builder) to blend in with the stain, caulk first (letting caulk dry at least 5 days) then stain.

3. Stain the wall (with a compatible stain, i.e. Capture or High Sierra Log Stain), making sure the stain seeps into the check—at least 1/4" into the opening.

4. Caulk the checks. Use a high-quality caulk (such as Log Builder). Use good pressure during application to inject the caulk into the crevices, then tool it smooth with your finger or a spatula to ensure the caulking comes in full contact with the sides of the opening. Otherwise, poor adhesion may result. Avoid smearing the caulk on the log surface and tooling too much of the caulk out of the check or crack (the surface of the caulk should be flush with the logs).

Clean-up & Disposal

Clean excess product off surfaces (before it cures) with a putty knife and/or a damp rag. Dispose of Log Builder in accordance with local regulations. Do not dispose of in drinking water supplies. Water may be used for cleaning hands, surfaces and equipment. Toxic solvents are not required for clean-up.

Lifetime Limited Warranty

Sashco Sealants warrants that Log Builder Log Sealant will stretch up to 100% (±50%) of original joint size and will not pull away or center tear when applied in accordance to the Log Builder Data:Tec (LBR 002). If you are dissatisfied at any time with Log Builder's performance in these areas, return proof of purchase to Sashco. Limited to product replacement only.

Log Builder is *the* smooth sealant for milled and hand-crafted log structures.

Colors

Color	10.5 oz.	29 oz.	5 Gallon
Black			■
Dark Brown	■		■
Gray	■		■
Redwood			■
Tan	■	■	■
White Pine	■		■
Woodtone	■	■	■

Log Builder is paintable and stainable (with most stains). Contact Sashco for compatibility information: 1-800-767-5656. Sashco will test any stain to determine compatibility with Log Builder. Test results available in a minimum of 6 weeks. Call for details.

Tips

■ Start with clean logs that have already been treated with a wood preservative (such as PeneTreat) and stain compatible with Log Builder (such as Capture or High Sierra). Call Sashco for a compatibility listing. Make sure all checks and cracks are thoroughly cleaned as well.

■ Install a "bond-breaker," i.e., backer rod or mylar tape.

■ Apply Log Builder with a standard caulking gun, bulk loading gun, or the patented Sashco Snorkler™ pump.

■ Tool Log Builder tightly to the log surface using a foam brush, trowel or any effective method you're comfortable with.

Technical Data:

(Not to be considered specifications)

Color: Tan, Woodtone, White Pine, Dark Brown, Gray, Redwood, and Black

Packaging: 10.5 oz. plastic cartridges, 29 oz. fiber cartridges, and 5-gallon straight-sided pails. (Not all colors are available in all sizes.)

Water Resistance: In most conditions, Log Builder forms a water resistant skin within 4 hours, depending on humidity and temperature. If applied in temperature lower than 50˚F and/or in relative humidity higher than 60%, Log Builder must be covered with plastic sheeting for 3-5 days before exposure to rain.

Application Range: 40˚F to 120˚F (Surface temperature). Ideal range: 60˚F to 90˚F.

Service Range: -30˚F to 250˚F

Paintability: Log Builder is paintable with latex coatings in 4 hours, with oil-based coatings in 5 days.

Compatibility: Log Builder will adhere to woods treated with most preservatives including borates, pentachlorophenol, and copper compounds. Log Builder is also compatible with insulating glass sealants and most building materials, including foam insulation.

Shelf Life: 18 months from date on carton when stored at room temperature.

Specifications: Passes C834-76, the performance requirements of TT-S-00230B and ASTM C-920. Meets FHA requirements.

VOC: 79.8 grams/liter; 0.67 lbs./gallon

Cure-Through Time: 3 weeks (1/2" thickness, 70˚F, 50% relative humidity)

Extrusion Rate: 1100 g/min (1/8" orifice at 40 psi)

Freeze-Thaw: Passes 5 cycles (0˚F to 70˚F)

Hardness (Shore A): 38 (21-day cure)

Solid Wt. %: 79%

Tack-Free Time: Less than 1 hour

Stain: None

Water Resistance: No washout (4 hours; 40˚F, 50% relative humidity)

Weathering:

Washout	None
Cracking	None
Discoloration	Passes ASTM C834-76

Snow: Be cautious of areas where snow builds up around the structure and remains for extended periods of time. Snow removal is recommended for these areas to ensure the ultimate adhesion of Log Builder.

Sashco will test any stain to determine compatibility with Log Builder. Just call and send us a sample of the stain you want tested. Test results available in a minimum of 6 weeks.

The data reported here are believed to be reliable. No warranty is made or implied concerning the accuracy or the results obtained from their use.

Sashco
Preserve your dream.