

Water Armor LF

VOC: 30 g/L, maximum

**REGULATORY COMPLIANCE
VOC Compliance**

Water Armor LF is compliant with the following national, state and district VOC regulations:

- US Environmental Protection Agency
- California Air Resources Board SCM Districts
- South Coast Air Quality Management District
- Maricopa County, AZ
- Northeast Ozone Transport Commission

Packaging: 20 oz (591 ml) sausages, 20 sausages per case.

Shelf Life: 1 year in tightly sealed, unopened container

Coverage (estimated)

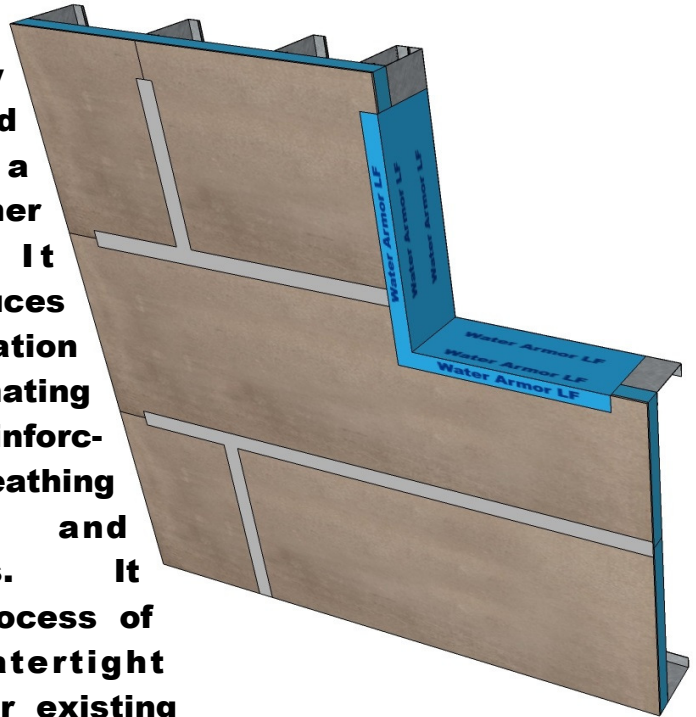
15-17 sq.ft. per 20-oz sausage applied at 12-15 mils

Opening Flashing - 4" horizontal, 2" vertical @12-15 mils: 22.5-25.5 lineal feet

Opening Flashing - 6" horizontal, 4" vertical @12-15 mils: 18-20.4 lineal feet

T. Clear Corp.® Water Armor LF is a gun-grade flashing and waterproofing. Formulated with STPE polymers, Water Armor LF uses moisture curing to produce a highly durable, seamless, elastomeric flashing membrane. Fast curing it allows for same day installation of windows, doors and other wall assembly, waterproofing or air barrier components.

Water Armor LF bonds directly to damp or dry surfaces and cures under a variety of weather conditions. It dramatically reduces surface preparation time by eliminating the need for reinforcing tapes at sheathing joints, inside and outside corners. It simplifies the process of producing watertight details in new or existing construction.



Use Water Armor LF as part of the waterproofing application, or to complement conventional waterproofing or air barrier components.



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Water Armor LF

Temp: 40°-110°F (5°-43°C) • Working Time: 1/4 hr • Cure Time: 12 hrs

at room temperature, working and drying time will vary with temperature and humidity

ADVANTAGES

- **Streamlines preparation by eliminating the need for joint reinforcing tapes.**
- **Silane functional polymer provides superior long term adhesion, crack bridging and weathering characteristics.**
- **Produces an opaque membrane when installed at the recommended 12–15 wet mils to simplify inspection and quality control.**
- **Bonds to most common building materials without priming.**
- **Single component saves time – no mixing.**
- **Produces a durable, weather-tight seal. Bonds and cures in wet weather, on damp substrates.**
- **Will not tear or lose effectiveness when exposed to weather during construction.**
- **May be fully exposed to UV and weather for up to 12 months.**
- **Compatible with most sealants and waterproofing or air barrier components.**
- **Solvent free. Isocyanate free. Phthalate free.**
- **No shrinkage. No staining. No yellowing.**
- **Breathable – allows damp surface to dry.**
- **Will not support mold growth.**
- **Service temperatures: –75°F to 300°F (–59°C to 149°C).**

TYPICAL TECHNICAL DATA

Form: viscous paste, mild odor
Specific Gravity: 1.45–1.55
pH: not applicable
Weight/Gallon: 12.5 lbs
Total Solids: 99%
Flash Point: >200° F (>93° C)
Freeze Point: not applicable

Cured Properties

Hardness, Shore A: 35–45
Tensile Strength: >150 psi
Elongation at Break: >350%
Water Vapor Transmission: 21 perms (ASTM E 96)
Corrosive Properties: Non-corrosive
Transfer Free Time: 20–40 minutes

Limitations

- **Not for use as a structural sealant.**
- **Not for use in place of appropriate through-wall flashing.**
- **Not for use below grade or in locations designed to be continuously immersed in water.**



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Preparation

To ensure best results, apply to clean surfaces free of contaminants. Chemical residues, surface coatings or films may adversely affect adhesion. Pressure-treated wood and other contaminated surfaces should be cleaned with a solvent wipe before application. Protect people, vehicles, property, plants and all other surfaces not intended to receive Water Armor LF. Remove and replace damaged sheathing. In rough openings, prime all raw gypsum board edges with a water-based acrylic primer. Any gaps or joints greater than 1 inch should be structurally repaired or readied for an appropriate transition membrane. Ensure positive drainage at all rough openings.

Surface & Air Temperatures

Surface and ambient temperatures should be 40°F (4°C) and rising and below 110°F (43°C) during application and drying. Wind and high temperatures will accelerate drying.

Hot Weather Precautions: If air or surface temperatures exceed 95°F (35°C), apply to shaded surfaces and before day-time air and surface temperatures reach their peak. Hot surfaces may be cooled with a mist of fresh water. Keep containers closed and out of direct sunlight when not in use.

Cold Weather Conditions: May be applied to frost-free substrates at temperatures below 32°F (0°C). Product will not start curing and drying until temperature rises to and remains above 32°F (0°C).

Low Humidity Conditions: Curing may take longer than 12 hours. Lightly misting treated surfaces with fresh water will accelerate curing. Uncured material may delay construction.

Though Water Armor LF may be applied to damp surfaces and tolerates rain immediately after application, do not apply to surfaces with standing water or frost.

Equipment

Apply using a professional caulking gun. Use a DRY joint knife, trowel, or spatula to spread the product. Do not use soapy water when tooling or spreading.

Storage & Handling

Store in a cool, dry place. Keep container tightly closed when not dispensing. Do not open container until preparation work has been completed. Do not alter or mix with other chemicals. When stored at or below 80°F (27°C) Water Armor LF has a shelf life of 12 months after the date of manufacture. This shelf life assumes upright storage of factory-sealed containers. Do not double stack pallets. Dispose of unused product and container in accordance with local, state and federal regulations.



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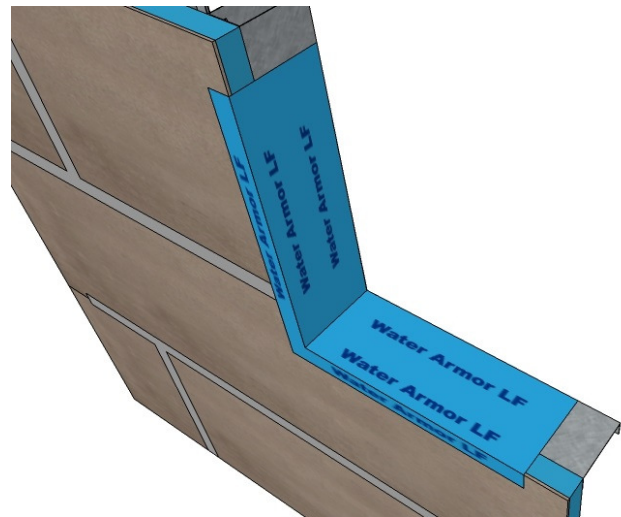
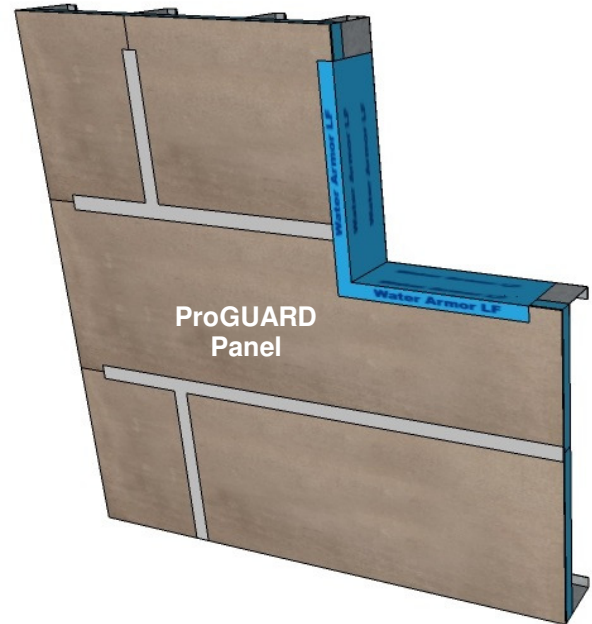
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Application Procedure

Prepare all surfaces as described above under "Preparation." Once preparation is complete, cut open tip of threaded fitting, install sausage into professional caulking gun.

Waterproofing Rough Openings

1. Apply a bead of product in each corner of the rough opening. Apply additional product in a zigzag pattern over the exterior framing inside the rough opening. Spread the wet product to create an opaque, monolithic flashing membrane.
2. Apply a thick bead of Water Armor LF in a zigzag pattern to the exterior wall surrounding the rough opening. Spread the product to create an opaque, monolithic flashing membrane at 12–15 mils which surrounds the rough opening and extends 4 to 6 inches (100–152 mm) over the face of exterior wall.
NOTE: When using with existing sheet weather resistive barriers, extend Water Armor LF 8-10 inches (203-254 mm) over the face of the exterior wall to ensure positive drainage.
3. Allow treated surfaces to skin before installing windows, doors and other wall assembly, waterproofing or air barrier components.



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Application Procedure

Filling Joints, Seams and Cracks

1. Apply a thick bead of Water Armor LF to all sheathing joints, seams and cracks. Treat joints ranging from ¼ to ½ inch with backer rod before applying Water Armor LF. On plywood, spot wood knots, deep cracks or surface irregularities.
2. Use a DRY joint knife, trowel or spatula to tool and spread the product. Spread 1-inch beyond seam at each side to a thickness of 12–15 mils.
3. Allow to skin before installing other waterproofing or air barrier components.

Flashing Transitions

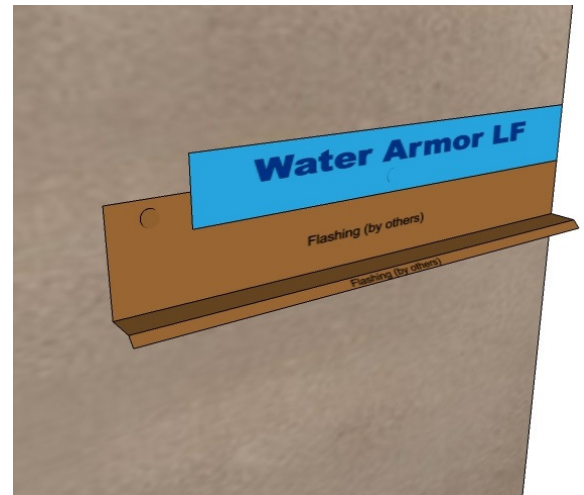
1. Apply a generous bead of Water Armor LF® to the top edge of the flashing leg.
2. Spread the wet product to create a monolithic “cap flash” flashing membrane that extends 2 inches (51 mm) up the vertical face of the exterior wall and down over the fastener heads of the metal flashing.

Curing & Drying

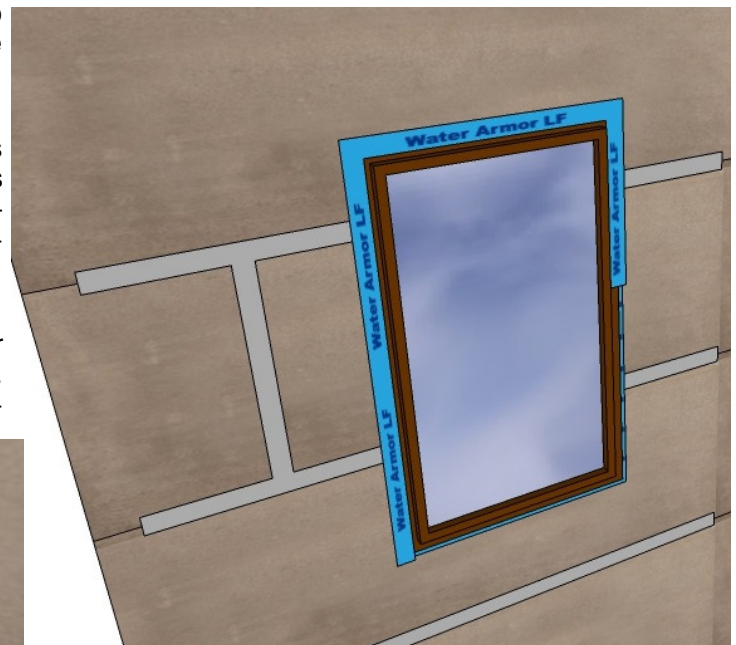
At 70°F (21°C) and 50% relative humidity, product skins within 30 minutes and dries in 12 hours. Water Armor LF is moisture curing. Low temperatures and low relative humidity slow dry time. High temperatures and high relative humidity accelerates dry time.

Cleanup

Clean tools and equipment with mineral spirits or similar solvent immediately after use. Follow all safety precautions. Remove cured Water Armor LF mechanically using a sharp-edged tool.



Typical Flashing Transition; 2" (50 mm) each side of joint or transition



Window Flange Transition, strip in window following manufacturer's flashing recommendations.



Information contained in this product data sheet conforms to the standard detail recommendations and specifications for the installation of T. Clear Corp. products and is presented in good faith. T. Clear Corp. assumes no liability, expressed or implied as to the architecture, engineering, or workmanship of any project. This information may be concurrent with, or superseded by other applicable documents, such as specifications and details. Contact T. Clear Corp. for the most current product information.
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