

## PRODUCT

The SEMCO Liquid Membrane is a single component waterproofing and anti fracture membrane. The SEMCO Liquid Membrane is a self-contained elastomeric fluid suspended in a copolymer adhesive, this revolutionary blend enables easy application while providing excellent bridging, and waterproofing. When combined with SEMCO's X-Bond Seamless Stone, two-stage waterproofing is achieved, enabling single source protection.



## SUBSTRATES

- Concrete
- Plywood
- Stone
- Exterior/Interior Cladding
- Residential, Industrial and Commercial

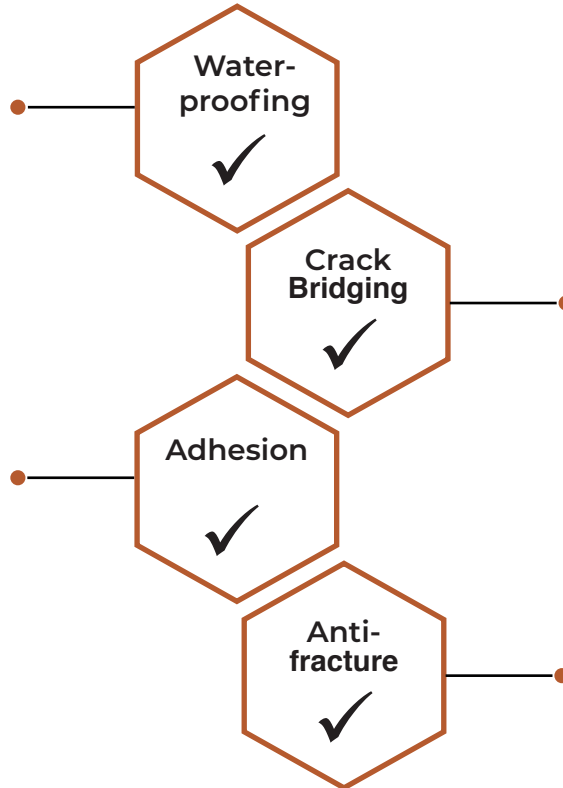
## COVERAGE

COVERAGE sq ft. /gallon @2 coats

Open pore substrates	100 - 200
Closed pore substrates	140 - 250
X-Bond Scratch Coat	200 - 300

## USES

Odorless/Low VOC waterproofing that allows you to proceed with your finish within 2 hours of application enabling a speedier project completion.



Repair existing surface cracks and imperfections to ensure clean and smooth finish application.

Integrated chemical adhesion enables mechanical cross-linking to applied surfaces, creating a perfect bond for long lasting protection

Up to 400% stretch and elongation providing future crack suppression for years to come.

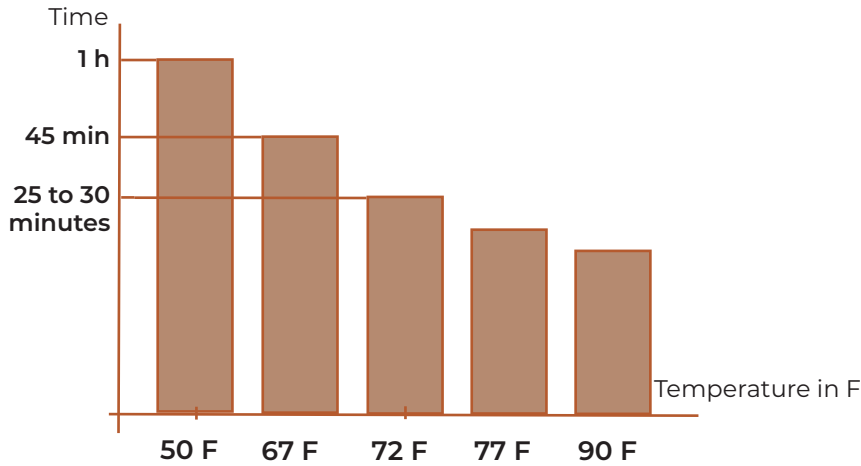
Scan to watch application



## APPLICATION

Application	1/2 " nap roller ; Airless sprayer with tip size 21 at 2,500 PSI (minimum 2 coats)
Application environment	Apply at temperatures from 50°F to 90°F
Color	Orange ( other colors available on request)
Chemical type	Latex - crosslink hybrid
Clean up	SEMCO Stone Soap with water
Shelf life	2 year in controlled environment (ambient temperature of 60F - 72F)
Packaging	1 gal.   5 gal.   55gal.

## DRYING / RECOAT TIME



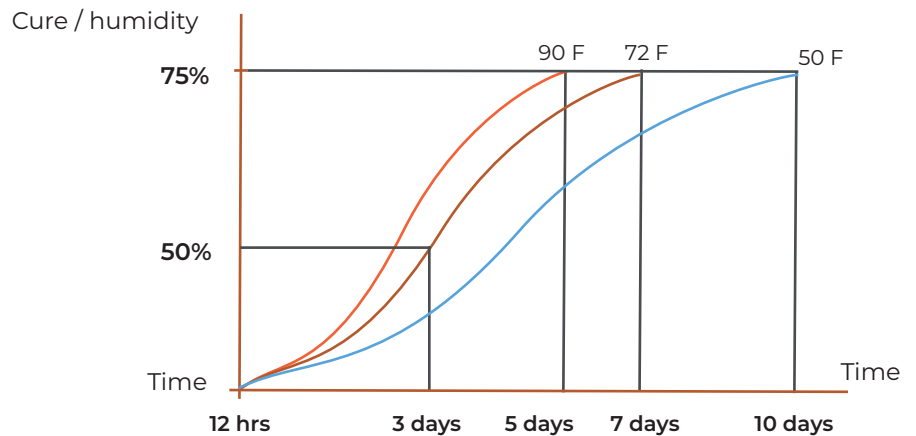
Drying times are affected by temperature and relative humidity. The chart represents guideline values but each project is to be treated individually.

The chart represents the time needed in between coats at specified temperature.

## CURE TIME

Curing time is affected by temperature and humidity.

For example at only 50F, a full cure would take 10 days in comparison to at 95 F it would only take 5 days to cure.



## ASTM TEST RESULTS

ANSI 118.10 - Breaking Strength ( ASTM D751, Procedure B )	Pass
ANSI 118.10 - Dimensional Stability ( ASTM D1204 )	Pass
ANSI 118.10 - 7-Day Shear Strength ( ASTM C482-9.8)	173 PSI / Shear
ANSI 118.10 - 7-Day Water Immerseion Shear Strength	132 PSI
ANSI 118.10 - 4-Week Shear Strength	234 PSI
ASTM E96 - Water Vapor Transmission	1.52 (g/hr-m2)
ASTM E96 -Water Vapor Transmission : Permeability	0.135 (perm-in)
ISO 37 - Tensile Strength ( ASTM D412 ) : Maximum Stress	390 PSI
ISO 37 - Tensile Strength ( ASTM D412 ) : Ultimate Elongation	400 %

## PROCEDURE

### FRACTURES UP TO 1/16 INCH CRACKS

- Apply minimum 2 coats of X-Bond Membrane with a 3/8" roller to achieve a thickness of at least 3 mil to retard future reoccurrence of crack. Wait 30 minutes at 70F before applying next coat.

### CRACKS BETWEEN 1/16 - 1/4 INCH

- Apply X-Bond Liquid with brush as a primer coat into the crack. Do not allow to dry. Apply mixture of X-Bond 1 part X-Bond Liquid to 2 1/2 parts of X-Bond Stone to fill up the crack. Allow mixture to dry, ONCE DRY roll 2 coats of X-Bond Membrane to achieve a thickness of at least 3 mil to retard future reoccurrence of crack. 30 min at 70 F between coats.

### CRACKS OR OPENINGS EXCEEDING 1/4 INCH

- Roll X-Bond Liquid as a primer coat. Do not Allow to dry. Apply mixture of X-Bond 1 part X-Bond Liquid to 2 1/2 parts of X-Bond Stone into the crack. Allow mixture to dry, ONCE DRY roll 1 coat of SEMCO Liquid Membrane, while still wet embed Fabric Membrane 6" to surface, and immediately roll an additional 2 coats of SEMCO Liquid Membrane to fully encapsulate the Fabric Membrane
- When applying the next line of Fabric Membrane overlap the new sheet over the existing sheet a minimum of 2"
- Allow surface to dry and proceed to X-Bond Brown Coat in the SEMCO SIP Manual

## SEMCO LIQUID MEMBRANE PROCEDURE

- Sweep debris off of surface
- Use a 1/2" roller. Allow any pre-treated areas to dry to the touch. Apply a generous coat of SEMCO Liquid Membrane with brush or roller over substrate including pre-treated areas. Apply another generous coat of SEMCO Liquid Membrane over the first coat of SEMCO Liquid Membrane. Let topcoat dry to the touch, approximately 1-2 hours at 70°F (21°C) and 50% RH. When last coat has dried to the touch, inspect final surface for pinholes, voids, thin spots or other defects. SEMCO Liquid Membrane will dry to bright orange color when it's dry to touch. Use additional X-Bond Membrane to seal the defects. Required thickness is 3 mil

## SEMCO LIQUID MEMBRANE SPRAY APPLICATION

- Sweep debris off of surface
- The sprayer being used for the application of SEMCO Liquid Membrane should be capable of producing a minimum of 2,500 psi (17.2), maximum of 3,300 psi (22.8 MPa) with a flow rate of 0.95 to 1.6 GPM (3.6 to 6.0 LPM) using a 0.521 or a 0.631 reversible tip. Keep the unit filled with SEMCO Liquid Membrane to ensure continuous application of liquid. The hose length should not exceed 100' (30 m) in length and 3/8" (9 mm) in diameter. Required thickness is 3 mil

## NOTES

- Extended application procedures can be found in the SEMCO SIP Manual.
- Procedures for cleaning of the flooring system during operations can be found in the SEMCO SIP Manual or upon request
- Safety Data Sheets for SEMCO Liquid Membrane are available upon request.

**PRECAUTIONS**  
Always test a small area first to determine ease of application and desired results. Gloves and eye protection should be worn during application. Do not mix with other cleaners. Not for use on humans or animals. If any contact with skin or eyes occurs, wash immediately with plenty of water. Be sure to read container label and Material Safety Data Sheet before using this product.

**LIMITED WARRANTY NOTICE**  
The technical details, recommendations and other information contained in this data sheet are given in good faith and represent the best of our knowledge and experience at the time of printing. It is your responsibility to ensure that our products are used and handled correctly and in accordance to SEMCO Post Matrix procedure, recommendations and only for the uses they are intended. We also reserve the right to update information without prior notice to you to reflect our ongoing research and development program. Federal, state and local specific recommendations, depending on local standards, codes of practice, building regulations or industry guidelines, may effect specific installation recommendations. The supply of our products and services is also subject to certain terms, warranties and exclusions, which may have already been disclosed to you in prior dealings or are otherwise available to you on request.

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modern seamless surface  
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