



F-20 Membrane

For Waterproofing, Thru-Wall Flashing and Air Barrier Applications

DESCRIPTION & USE

Lexcor F-20 vinyl Membrane is a tough, yet flexible waterproof membrane compounded from specially modified polyvinyl chloride (PVC). The standard sheet thickness is 0.5 mm (20 mil). Membrane sheets are seamed in the field with a hot air heat weld. Sheets may also be bonded to substrates such as wood, concrete and steel using Lexcan PVC Bonding Adhesive.

F-20 is designed for non-exposed use only. For flashing or waterproofing applications exposed to sunlight, refer to Lexcor's FR-40 reinforced membrane.

USES

F-20 MEMBRANE is a versatile product that may be used in a variety of construction applications:

- **Through-Wall Flashing** - For flashing cavity walls, spandrel beams, headers, window frames, etc.
- **Waterproofing** - Foundation walls, shower pans, swimming pool decks, etc.
- **Air Barrier** - Sealing buildings against air and vapour passage.

FEATURES & BENEFITS

- **Tear and Puncture Resistant** - F-20 withstands abrasion and resist tears and punctures.
- **Bridges Cracks** - F-20 is flexible enough to bridge substrate expansion cracks or voids that would cause other types of waterproofing systems to fail.
- **Homogeneous Single Ply Membrane** - F-20 is a uniformly thick solid membrane that will not crack, craze, chip or peel.
- **Surface Embossed** - Surface relief enhances adhesion to mortar and concrete.
- **Resistance to Chemicals** - F-20 resists mildew, fungus, bacterial growth, soil burial and numerous industrial chemicals.



TECHNICAL DATA

Physical Properties & Packaging

Property	A.S.T.M. Test	Typical Value
Specific Gravity	D-792	1.41
Moisture Vapour Transmission Rate	E-96 Proc.E	20 ng/(Pa•s•m ²) [.35 Perms]
Tensile Strength Ultimate	D-412	12.4 MPa [1800 psi]
Elongation, Ultimate	D-412	250%
Hardness, Shore A	D-2240	93
Tension, Set, 50% ext.	D-412	5%
Grave Tear	D-1004	91 kg/25 mm thickness
Exposure	D-822	no appreciable effect

Packaging

F-20 Membrane is packaged in rolls of either 30.48 m (100 ft.) or 45.72m (150 ft.) lengths. Widths and roll coverages are shown below:

Roll Width	Roll Length			
	30.48 m (100 ft)		45.72 m (150 ft)	
12" 30 cm	100 sq.ft	9.29m ²	150 sq.ft	13.94m ²
18" 46 cm	150 sq.ft	13.94m ²	225 sq.ft	20.90m ²
24" 61 cm	200 sq.ft	18.58m ²	300 sq.ft	27.87m ²
48" 122 cm	400 sq.ft	37.16m ²	600 sq.ft	55.74m ²
54" 137 cm	450 sq.ft	41.81m ²	675 sq.ft	62.71m ²

Certain sizes may not be available at all locations.

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COMMERCIAL BUILDING PRODUCTS

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LEXCOR

Accessories

Lexcan PCV Bonding Adhesive is a high strength solvent based contact adhesive that allows bonding of F-20 to various porous and non-porous substrates. It is available in 5 gallon pails.

APPROXIMATE ADHESIVE COVERAGE RATES:

- Lexcan PVC Bonding Adhesive - 5.6 square m (60 ft²) per gallon finished surface. Coverage rates are average and may vary due to conditions on the job site. Porous surfaces and substrates may require more bonding adhesive than the typical coverage rate.

*: Coverage rate may decrease on porous surfaces.

Limitations

- F-20 membrane is not for use in exposed conditions. Backfilling over waterproofing should be completed in three days. For exposed waterproofing, refer to the product data bulletin on Lexcor's FR-40 flexible, reinforced flashing.
- F-20 is not compatible with polystyrene insulation, bitumen or coal tar based products or surfaces.
- Work area should be adequately ventilated when using adhesives. Refer to application and safety information on adhesive container label.

INSTALLATION

Bonding F-20 to a Substrate

1. Bonding substrate must be clean, dry and free from loose dirt, oil and grease. Fill all holes, joints and cracks and point flush all projections.
2. Stir adhesive thoroughly with wooden paddle until solvent and base is completely blended; 2 to 4 minutes minimum.
3. Apply Lexcan PVC Bonding Adhesive evenly by brush or lambswool roller. Avoid leaving puddles or globs of adhesive.
4. Position F-20 sheets so that adjacent sheets will overlap a minimum of 15 cm (6") on sides and ends. Upper edge should either terminate in a reglet, be mechanically fastened or keyed into a mortar joint a minimum of 50 mm (2"). If waterproofing a foundation, lower edge of sheet should extend a minimum of 15 cm (6") over the footer.
5. Fold one half of the membrane back and apply Lexcan PVC Bonding Adhesive to the underside and to the substrate. Allow the adhesive to dry until it does not string when touched with a dry finger.
6. Carefully mate the membrane to the substrate, avoiding wrinkles and fishmouths. Broom the membrane heavily with a soft bristle push broom.

7. Repeat steps 4 and 5 with the other half of the membrane.

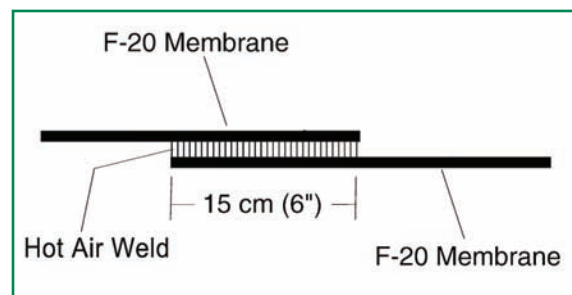
* Note: Where only a 'tack' bond is required and a strong adhesive bond is not necessary (i.e.: such as where the membrane will be quickly covered by backfill) the membrane may be applied with only a single coat of adhesive. Apply the adhesive liberally to the substrate and let it dry until it is stringy but not wet when touched. Imbed the membrane into the adhesive and broom it heavily with a pushbroom. Exposed membranes should be bonded with the two coat application described above.

Seaming - Heat Welding

1. Place nozzle of heat gun between overlapping sheets and apply heat to both the bottom sheet and upper sheet at the same time. Be careful not to apply too much heat as to melt the F-20 membrane.
2. As the F-20 membrane becomes shiny from the heat, press the lap together, avoiding air entrapment and wrinkles. Roll the completed splice with a silicone rubber hand roller to ensure complete contact.

SPECIFICATION

[Through-Wall Flashing, Non-exposed Waterproofing Membrane, Air Barrier] shall be Lexcor F-20 Membrane, as supplied by Lexcor. Membrane shall be 0.5 mm (20 mil) thick polyvinyl chloride sheet [bonded to the substrate with Lexcan PVC Bonding Adhesive] demonstrating an average moisture vapour transmission rate of 20 ng/(Pa•s•m²) as per ASTM E96, method E. Minimum 15 cm (6") seams shall be fabricated by heat welding. F-20 Membrane installation shall be in strict accordance with installation instructions in Lexcor product dated April, 2012.



F-20 Membrane Seam Detail

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