

## Technical Services

# Forti-Lock™ Penetration Flashing

Forti-Lock is a rapid-curing, proprietary formulation of polymethyl-methacrylate (PMMA) liquid resin which is used in combination with Forti-Lock Fleece reinforcing fabric to form a flexible and monolithic reinforced membrane used for unusual FiberTite flashing and detail applications.

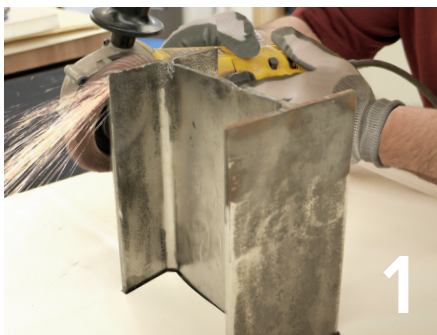


### Tools & Equipment:

- Plastic tarps or sheeting
- Clean mixing sticks
- Variable speed drill with ½ inch chuck
- 2 large spiral resin agitator/mixers
- 1 tablespoon (15 ml) measure
- Plastic mixing buckets (5 liter)
- Reinforced masking tape
- Razor knife
- 9-inch scissors
- Disposable heavy-duty nitrile gloves
- Tape measure
- Permanent marker
- Metal Grinder
- Heat gun
- Scouring Pads
- Clean cotton rags
- FiberTite Seam Cleaner

### Application Tools:

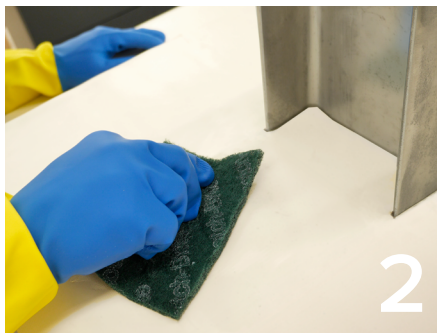
- 4 Inch Roller Naps
- 4 Inch Roller Handles
- 4 Inch Brushes



1. Remove existing paint and finishes etc. by mechanical means. Wipe clean with FiberTite Seam Cleaner to ensure that the prepared surface is clean, dry and free of dust, grease, oil and other contaminants.

All metal surfaces are to be cleaned and prepared to near white metal. Extend preparation area minimum of ½ inch (1.3 centimeters) beyond the termination point of the membrane flashing materials.

In addition to cleaning, all metal surfaces shall be abraded to provide a rough open surface. A wire brush finish is not acceptable.



2. Clean and prepare the FiberTite membrane surface by removing all dirt, debris and heavily soiled membrane with a light detergent and rinse clean and dry. Wipe the surface clean with FiberTite Seam Cleaner and a green scratch pad to lightly abrade surface. Allow membrane surface to completely dry.

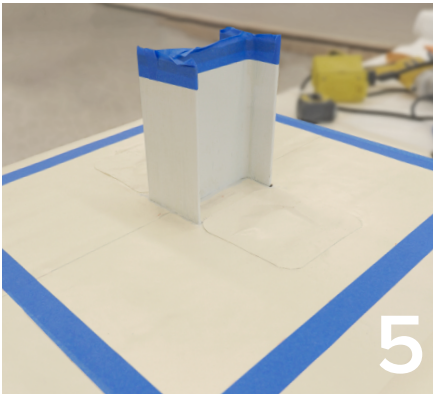


3. Secure the FiberTite field membrane with minimum of two Magnum stress plates and fasteners. Distance between fasteners not to exceed 12-inches on-center around penetration.

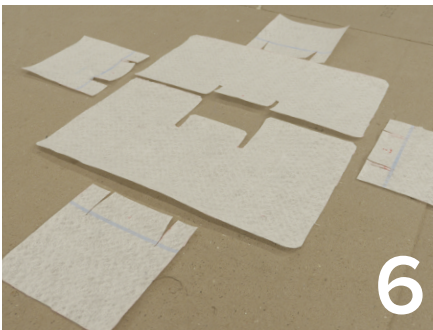
Cover each installed plate with a FiberTite Membrane heat welded cover strip.



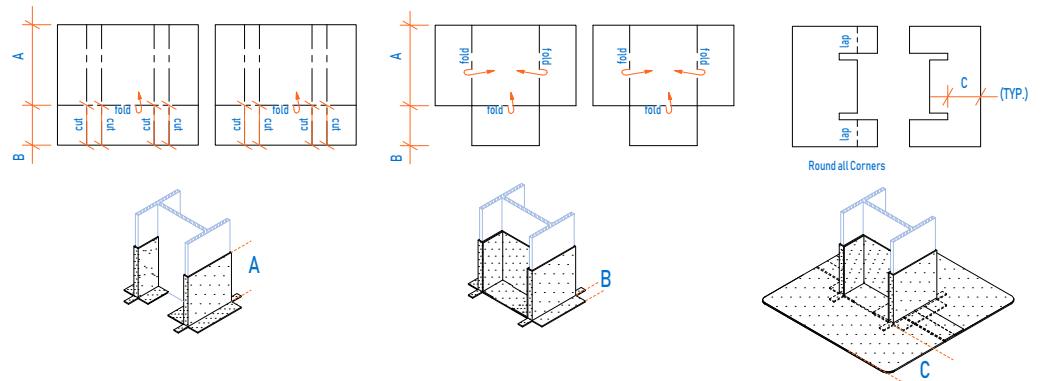
4. Mask penetration to a minimum of ½ inch (1.3 cm) beyond intended material application area. Prime metal surfaces with Forti-Lock Metal Primer per application rate of approximately 250 ft<sup>2</sup> (23.2 m<sup>2</sup>) per gallon. Allow primer to dry a minimum of 6 hours.



5. Apply masking tape at the top edge termination and on the FiberTite membrane. Mask membrane area a minimum of 8 inches (20.3 cm) horizontally beyond the base of the penetration and 8 (20.3 cm) inches vertically on to the penetration (½ inch below primer line).



6. Pre-cut Forti-Lock Reinforcing Fleece as required prior to mixing and applying with Forti-Lock resin. The Forti-Lock Fleece should conform to penetrations being flashed. [See detail FTR-FL4.](#)



7. Dry fit Forti-Lock Reinforcing Fleece around penetration prior to mixing and applying with Forti-Lock resin.



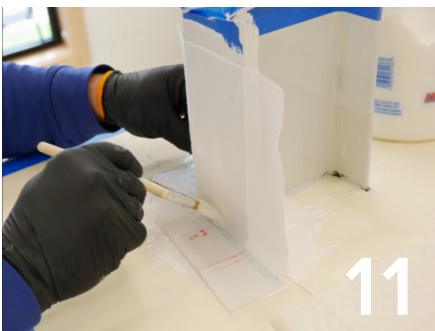
8. Thoroughly stir the entire container of Forti-Lock resin using a slow-speed mechanical mixer for two minutes prior to each use. Mix with spiral agitator or stirring stick, taking care not to aerate the material.



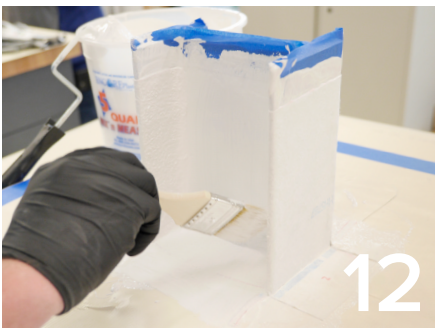
9. Pour resin into a secondary container used for measuring and/or mixing. Catalyze only the amount of material that can be used within 10-15 minutes.



10. Add pre-measured catalyst to the resin component, stir with stir stick for 2 minutes before applying to substrate. Forti-Lock Catalyst Powder addition is based on the weight of resin being used and ambient temperature.  
Refer to individual [Forti-Lock Product Data Sheets](#) (PDS) for specific product application rates and consumption.

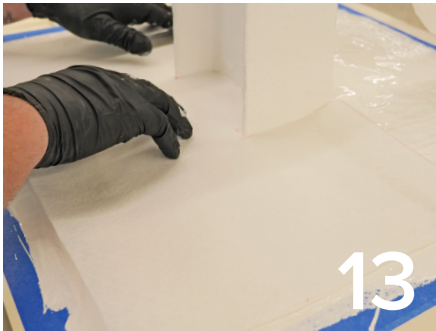


11. After mixing, apply resin to clean and prepared substrate at the required consumption rate, using ½-inch nap rollers and disposable brushes. Apply base coat of catalyzed Forti-Lock resin onto the vertical substrate and immediately apply the Forti-Lock Fleece reinforcement into the wet base. Continue around entire penetration, covering vertical surfaces with precut fleece.

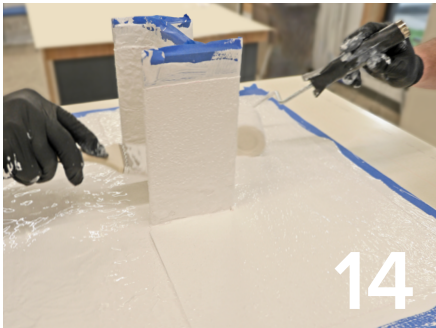


12. Apply a uniform topcoat of Forti-Lock Liquid Flashing resin fully saturating the fleece. (Approx. 25 wet mils). Avoid folds, wrinkles or air bubbles.





13. Apply evenly spread Forti-Lock Liquid Flashing resin base coat onto the horizontal surface at specified application rate (approx. 50 wet mils). Place the horizontal Forti-Lock Reinforcing Fleece pieces.



14. Apply a uniform topcoat of Forti-Lock Liquid Flashing resin fully saturating the fleece (Approx. 25 wet mils). Avoid folds, wrinkles or air bubbles.



15. After the flashing is fully saturated and complete, remove the tape while the resin is wet.



16. Clean up excess resin outside the flashing area by wiping with FiberTite Seam Cleaner and a clean cloth only while flashing is still wet.

