



Application Guidelines Waterproofing ICF Foundations

1.0 GENERAL

This specification is provided as a general guide for use of Liquid Rubber products based on typical building conditions and standard construction practices. Liquid Rubber recommends that the Owner's representative independently verify the accuracy and appropriateness of a specification provided for a specific project.

2.0 INSPECTION

Improperly prepared surfaces can result in the reduction of the service life and performance of the membrane coating. A thorough inspection of the foundation prior to beginning work should be performed to ensure adhesion and the integrity of the coating. At a minimum, confirm that the surface is satisfactory for application and the ICF is sound.

3.0 GENERAL PREPARATION AND CLEANING

Liquid Rubber CreteSafe products must be installed on a clean, dry and structurally sound surface that is free of sharp edges, dirt, debris, oil, grease, mastics, other coatings or other contaminants.

3.1 Allow the foundation to dry until it is free of surface and retained moisture.

3.2 If the surface needs to be washed, allow the foundation to dry until it is free of surface and retained moisture.

3.3 Prepare pipes by sanding Metal / PVC / ABS pipes to a min. 4"/10 cm at juncture of pipe penetration. Clean PVC / ABS with acetone, rinse with clean water and dry.

3.4 Rasp the surface of the EPS if chalking is present.

3.5 Repair any damage and voids in the EPS using TrowelGrade B-400. Voids that cannot be filled solely with TrowelGrade B-400 can be filled with expandable spray foam infill then coated with TrowelGrade B-400.

3.6 Mask areas as needed for protection against over spray.

4.0 WALL PREPARATION

4.1 Seal all areas of penetrations i.e. utility, drain and water lines using HighBuild S-100/200 and the 3-Course Method.

4.2 Use the 3-Course Method for all cracks.

4.3 At inside and outside corners, apply a 0.75" x 0.75" / 2 cm x 2 cm bead/fillet using TrowelGrade B-400.

5.0 PREPARATION OF FOOTINGS/SOF TO WALL TRANSITION

5.1 Apply a bead of Trowel Grade B-400 to all 90° intersections where the footing or SOG meets the vertical wall.

5.2 Apply a coating of HighBuild S-100/200 extending 6"/15 cm up the wall from the base and across and down the footing/SOG for a total width of 12"/30 cm.

5.3 Apply the 3-Course Method using 12" wide reinforcing fabric.

6.0 SPRAY APPLICATION

6.1 Begin spraying a prime coat (5-10 mil) of CreteSafe B-250 part A to the walls and footings.

6.2 After completing the prime coat coverage, begin spraying CreteSafe B-250 Instant Set (Part A & B) starting at the footing/SOG moving vertically up the wall with a 50% overlap. Alternate the next pass in a cross hatch pattern (perpendicular to the first pass) and then again in a cross hatch pattern for the 3rd pass. Apply a total thickness of 60 mil/1.5 mm DFT.

Using the 3 Course Method

The **3-course method** for sealing cracks and penetrations uses Liquid Rubber HighBuild S-100/200 and various widths of Liquid Rubber reinforcing geo-textile fabrics. Use heavy coats for all steps.

A. Measure and cut a length of Liquid Rubber geo-textile fabric and ensure the fabric overlaps 6"/15 cm on all sides of the area in question. Apply a coating to one side using HighBuild S-100/200.

B. Apply a coat of HighBuild S-100/200 over the surface extending 6"/15cm on both sides and imbed the coated side of the geo-textile into the coated surface.

C. Allow it to tack up and apply a coat of HighBuild S-100/200 over the geo-textile. Allow it to dry for approx. 3-4 hours and apply a 2nd coating.

D. Close fish mouths (openings) by pushing them down and back brushing HighBuild S-100/200 into the openings.

6.3 Check the coating thickness at various intervals with a thickness gauge and upon completion, inspect the entire foundation for uniformity of the membrane.

7.0 DRYING AND CURING

7.1 Curing time depends on weather conditions. A minimum of 24-48 hours curing time is normally required at 70F/20C and 50% humidity for a 60-80 mil/1.5-2 mm DFT membrane to fully cure. Curing times can be enhanced with air movement (fans) and heaters. If rain is expected within 24 hours, delay installation.

7.2 Conditions such as cold temperature, high humidity or airflow may delay full adhesion and curing of the membrane subject to the membrane thickness and severity of conditions.

7.3 It is recommended to allow the membrane to dry for 24 hours before application of the dimple board drainage system. Follow manufacturers recommended installation instruction for drainage system. The curing process of the CreteSafe b-250 will continue after backfilling.

For more information, please consult a Liquid Rubber technical representative @ 855-592-1049, 8:30 AM – 5:00 PM EST.

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