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

**Use of Liquid Rubber Products to waterproof a concrete wall.**

**INSPECTION**

Improperly prepared surfaces can result in the reduction of the service life and performance of the membrane coating. A thorough inspection of the substrate prior to beginning work should be performed to ensure adhesion and the integrity of the coating. At a minimum, the following must be confirmed:

- A satisfactory surface for application and the soundness of the substrate.
- Surface must be free of voids and irregularities. 1/8th inch voids or less must be filled with Liquid Rubber Caulking Gel or B-400 TrowelGrade and larger voids sealed with Liquid Rubber HighBuild S-200 brush grade and geo-textile fabric or Liquid Rubber Seam Tape.
- Drainage must be functioning properly.
- If an existing coating is present, determine the soundness and the compatibility of the coating to Liquid Rubber CreteSafe products by coating a small test area.

**GENERAL PREPARATION & CLEANING**

Liquid Rubber CreteSafe products must be installed on a clean, dry and structurally sound surface that is free of sharp edges, efflorescence, dirt, debris, oil, grease, coal tar, mastics, flaking paint, silicone, other coatings or other contaminants. High-pressure power washing with a minimum pressure of 1,400 psi is recommended to provide a clean bonding surface

- If the surface needs to be washed, allow the substrate to dry until it is free of surface and retained moisture.
- Surface must be free of voids and irregularities. 1/8th inch voids or less must be filled with Liquid Rubber Caulking Gel or B-400 TrowelGrade and larger voids sealed with Liquid Rubber HighBuild S-200 and geo-textile fabric and/or using Liquid Rubber Seam Tape.
- Clean and remove any loose rust or scale from metal surfaces.
- 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.
- Install protective covers around penetrations.
Mask areas as needed for protection against over spray.

Allow detail work to cure for 24 -48 hours prior to applying Liquid Rubber CreteSafe spray products over top.

**Using the 3 Course Method**

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

- 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-200.
- Apply a coat of HighBuild S-200 over the surface extending 6”/15 cm on both sides and imbed the coated side of the geo-textile into the coated surface.
- Allow it to tack up and apply a coat of HighBuild S-200 over the geo-textile. Allow it to dry for approx. 3-4 hours and apply a 2nd coating.
- Close fish mouths (openings) by pushing them down and back brushing HighBuild S-200 into the openings.

**SEALING PIPES, PENETRATIONS, WINDOWS & DOORS**

- Clean and remove any loose rust scale, excess caulking or mastic.
- PIPE PENETRATIONS: General recommendation is to replace old pipe flashings with retrofit wrap. Seal with HighBuild S-200 over the boot and down across the roof surface several inches. Alternative method to seal pipe penetrations is to measure and cut a length of Liquid Rubber geo-textile fabric 3”/7.5 cm longer than the circumference of the pipe. Cut 3”/7.5 cm long slits every 1”/2.54 cm apart along one edge. Apply a coat of HighBuild S-200 extending 4”/10 cm on the pipe from the juncture of the pipe penetration and down across the flange and terminating 4”/10 cm across the flat of the roof. Use 3-course method and wrap the fabric around the pipe with the slits splayed out across the roof surface.
- WINDOWS & DOORS: Seal around units using the 3-course method using geo-textile/Seam Tape.

**APPLICATION OF CRETESAFE PRODUCTS**

The recommended DFT (dry film thickness) for Liquid Rubber CreteSafe products is 60-mil/1.5 mm DFT.

- Begin by spraying Part A only, meaning the CreteSafe B-250 without the calcium chloride, over the entire concrete surface at the rate of 10 wet mils to prime the surface. This will fill any voids that were missed during the prep work. Allow drying to the touch before building the membrane.
- Follow by applying Liquid Rubber CreteSafe B-250 part A & B (instant set) @ 100 wet mils to all vertical/horizontal intersections such as wall/roof turn-ups, fillets and where the 3-course method was applied. Apply in a cross hatch pattern with 2-3 passes in each direction with a 50% overlap. This should extend 4”/10 cm up the vertical surface and across the horizontal surface and at the corners.
- Test the Liquid Rubber CreteSafe System to ensure that it is sufficiently cured by using a moisture gauge. The moisture content must be lower than 10%.

**PRODUCT CURRING PRECATIONS**

- Curing time depends on weather conditions. A minimum of 24-36 hours curing time is normally required at 70F/20C and 50% humidity for a 80 mil/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.
- 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.

**POST INSTALLATION INSPECTION**

- Upon completion, inspect the entire surface for uniformity of membrane thickness in grid patterns of 150 FT²/45 M².
For more information, please consult a Liquid Rubber technical representative @ 855-592-1049, 8:30 AM – 5:00 PM EST.

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