This specification is provided as a general guide for use of Liquid Rubber CreteSafe products based on typical conditions and standard Foundation 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 an ICF Foundation

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, the following must be confirmed:

- A satisfactory surface for application and the soundness of the foundation.
- Surface must be free of voids and irregularities. 1/8th inch voids or less must be filled with Liquid Rubber B-400 TrowelGrade or Liquid Rubber Gel Grade and larger voids sealed with Liquid Rubber CreteSafe S-350 brush grade and geo-textile fabric or Liquid Rubber Seam Tape.
- The drainage must be functioning properly.
- If an existing coating or membrane 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.

- If the surface needs to be washed, allow drying 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 B-400 TrowelGrade or Liquid Rubber Gel Grade and larger voids sealed with Liquid Rubber CreteSafe S-350 and geo-textile fabric and/or using Liquid Rubber Seam Tape.
- 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.
- If chalking is present, rasp the surface.
- Large voids that cannot be filled with Liquid Rubber can be filled with expandable spray foam infill, cut flush to the surface and then coat over with Liquid Rubber CreteSafe S-350.
- 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.
FOOTING PREPARATION

Apply a capillary break using Liquid Rubber CreteSafe S-350. Apply one coat along the horizontal course of the slab where the foundation wall will be poured. Allow to dry for 24 hours.

PREPARATION OF FOOTINGS / SOG TO WALL TRANSITION

- Apply 6" wide Liquid Rubber Seam Tape® extending 3"up the wall and down 3"onto the footing.
- Apply a 1/2" bead of Liquid Rubber Gel Grade® over the Seam Tape at the 90° intersection where the footing/SOG meets the vertical wall.
- Geo-Textile and 3 Course Method may be used as well.

Using the 3 Course Method for Cold Joints

The 3-course method for sealing cracks and penetrations uses Liquid Rubber CreteSafe S-350 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 CreteSafe S-350.
- Apply a coat of CreteSafe S-350 over the surface extending 6'/15cm 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 CreteSafe S-350 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 CreteSafe S-350 into the openings.
- Liquid Rubber Seam Tape may be used instead of the 3 Course Method.

WALL PREPARATION

- Apply Liquid Rubber Gel Grade into all vertical and horizontal seams of the blocks.
- Seal all areas of penetrations i.e. utility, drain and water lines using spray foam infill then coat over using CreteSafe S-350 brush grade or Gel Grade.
- Seal cut joints with expandable spray foam infill if required and shave excess material flush to the wall.
- Apply 4" wide Liquid Rubber Seam Tape extending 2" on both sides of the cut. 3 Course Method may be used as well.
- Apply a 1/2" bead of Liquid Rubber Gel Grade® to all 90° intersections including inside corners.

INSTANT SET SPRAY APPLICATION: CreteSafe B-350

- Starting from the footing/SOG begin spraying CreteSafe B-350 instant set part A&B vertically up the wall with a 50% overlap then alternate the next pass in a cross hatch pattern (90° to the first pass) and again in a cross hatch pattern for the 3rd pass. Apply @ 60 mil./1.5 mm DFT (dry film thickness). Final Coverage is 16.4 ft²/gallon.
- Check mil thickness at various intervals with a thickness gauge. After curing (approx. 48 hours) inspect the entire membrane for uniformity of thickness.

BRUSH/ROLLER APPLICATION: CreteSafe S-350

- Apply 2-3 coats of Liquid Rubber CreteSafe S-350 to the entire surface allowing 24 hours drying time between coats. Apply using a mason brush or medium pile roller. Apply @ 60 mil/1.5 mm DFT. Coverage is 16 ft²/gallon.
- Check mil thickness at various intervals with a thickness gauge. After curing (approx. 48 hours) inspect the entire membrane for uniformity of thickness.
PRODUCT CURRING PRECAUTIONS

- 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.

The information contained herein is the best available to Liquid Rubber Worldwide Inc. and its affiliated companies relating to our products and the use of our products. It is based on tests believed to be reliable. There is no warranty expressed or implied in association with the products use. Liquid Rubber Worldwide Inc. assumes no liability for any damages incurred in association with the use of Liquid Rubber Worldwide Inc. products. Information is subject to change without notice.

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