SPF ROOF APPLICATION GUIDE

Liquid Rubber has several easy, **Do-It-Yourself** solutions to seal and waterproof your SPF roof. Water-based and non-toxic with no VOC's or solvents. Can be applied by brush, roller, or heavy-duty airless paint sprayer to create a seamless waterproof membrane with excellent flexibility and UV resistance.

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PREPARATION

Liquid Rubber waterproof solutions are so easy to install, anyone can do it! Follow the steps detailed below to ensure proper installation of your high-performance roof coating. Surface preparation is the most important step in any successful coating installation.

Inspection:

Liquid Rubber products should be applied to a solid, sound substrate. Spray foam should be inspected and in good condition prior to application of your waterproof elastomeric coating. Inspect spray foam system for blistering, delamination, UV degradation/pinholes, splits and cracks, damage from impact (foot traffic, hail, etc.), ponding water, eroded coating, damaged flashings, etc.

General Preparation & Cleaning:

(Prep is 90% of the job!)

SPF foam should be completely dry and free of defects. The elastomeric topcoat should be well bonded. Loose, flaky material should be removed, blisters cut out, pinholes, ponding/low area's and light spots identified and marked. Rasp oxidized/weathered foam (this may appear as pitting or as a rusty or patchy color). SPF repairs should be complete and fully cured prior to waterproofing application. A test patch is recommended to confirm adhesion prior to full application.

DETAIL WORK

Inside/Outside Corners, Parapet Walls, Penetrations, Cracks:

Brush a heavy coat over all inside and outside corners. Coat around penetrations such as boots, vents, etc., that are set into the roof with a thick coating and **Liquid Rubber Geo-Textile** applied via the **3-course-method** to ensure a complete seal prior to coating the entire area. Alternatively, you can use **Liquid Rubber Seam Tape**.

3-Course-Method:

Measure and pre-cut **Liquid Rubber Geo-textile** fabric to the required length. Apply a generous 6" band of your selected **Liquid Rubber** sealant, centered over the crack, joint, etc. and lay the 4" geo-textile into the sealant while it is still wet, and before skinning takes place, leaving no wrinkles. Apply an additional coat of sealant over the Geo-Textile and allow to dry. Once the details are dry (tacky is ok) you can begin applying your full field coats to the entire surface. Detail coats should be brushed in so as to work the waterproof coating into cracks and crevices. For all gaps/cracks greater than 3mm (1/8") fill with **Liquid Rubber Sealant & Adhesive** and allow to cure prior to 3-Course-Method.

Seam Tape:

Measure and pre-cut **Liquid Rubber Seam Tape** to the required length. Make necessary relief cuts for forming around pipes, corners, or other irregular surfaces. Begin to remove the backing (as you apply) and continue removing as you go being careful to not allow the Seam Tape to accidentally contact itself or other surfaces. Use a roller, putty knife, palm of your hand, etc. to apply pressure, rubbing the tape into the surface leaving no wrinkles or fish mouths. Brush in a detail coat over the Seam Tape going several inches beyond the edges of the tape.

(Remember, these are the area's most likely to leak so pay special attention to the details, nobody wants to do it twice!)

APPLICATION

Termination:

Tape-off, block off or otherwise mark areas that are not to receive coating. Remove tape while the sealant is still wet.

Application:

Apply your selected sealant when the temperature is 10°C/50°F and rising. Use a brush, roller, or appropriate sprayer. Generally you can apply 2 heavy coats per day. Pitched roof applications generally take 3-4 coats and flat roofs will take 5-6 coats.

(Please Note: Everyone coats differently. Be sure to apply as per the coverage rate regardless of how many coats it takes.) Apply the next coat when dry to the touch and nothing is wet underneath. Tacky is OK. Apply all recommended material.

Inspection:

Inspect for pinholes, blisters, voids, thin spots, or other defects. Repair as necessary.

Recoat and Cure Time:

Refer to specific product page or data sheet. Cold or damp conditions can extend drying times.

APPLICATION TIPS

- Apply using a 3/8 (10mm) roller, brush or appropriate paint sprayer.
- Use **Liquid Rubber Sealant & Adhesive** for gaps and cracks.
- Do not combine Black products with Colored products.
- Colored products clean up with soap and water, for bitumen or silicone use odorless mineral spirits.
- Not meant as a walking surface.
- Wrap brushes in plastic to use for next coat.
- Pull your masking tape or blocking while coating is still wet. You may re-tape or stay shy of the termination line on your following applications. If you allow your coating to dry too much, you can score/cut along the tape line before pulling to prevent the chance of lifting the coating.
- Apply to clean, dry surface that is free of dirt, silicone, loose paint, rust, oil, grease, coal tar, or other contaminants.
- Apply each new coat in an alternate direction to the previous coat to ensure even thickness.
- Typically cures within 48-72 hours.
- Avoid contact with solvents and solvent based cleaners, adhesives, and paints.
- Do not allow to freeze until fully cured.
- Do not apply in wet conditions (including fog and dew) or if rain is forecasted within 24 hours.
- Apply next coat when dry to the touch (Refer to specific product requirements, tacky is OK).
- Make sure what you're coating is at least 5 degrees above the dew point of the environment you are coating in.
(See technical specs for more details)
- Do not apply in direct intense sunlight
- It is always a good idea to apply a small test patch in an inconspicuous area to ensure adequate adhesion prior to full application.
- See website for videos and technical support.

CLEAN UP - *It turns out that cleaning up your mess is not nearly as fun as making one, so follow these rules.*

- Always organize yourself and your work area to reduce the potential for spillage and other accidents.
- Set out a tarp or large piece of cardboard to keep containers and tools on, when not in use. Make sure you have mineral oil/baby oil, rags, and odorless mineral spirits on hand, so you are ready if a spillage occurs.
- Soak up as much material as possible with rags.
- **Colored Products:** Clean with soap and water.
- **Bitumen:** Clean skin immediately with mineral oil/baby oil and other surfaces with odorless mineral spirits. (test first to ensure no discoloration)
- **Silicone:** Uncured silicone coating can be cleaned, and equipment can be flushed with VM&P Naptha or mineral spirits.
- If dried, scrape off as much as you can. (with a razor/scraper/etc.)
- Use odorless mineral spirits to weaken the material and an appropriate tool to mechanically remove (wire brush, grinder, etc.)
- **Warning: Mineral spirits can spread the stain, be sure to use sparingly, in a controlled manner, and to follow the manufacturers safety recommendations.**
- Refer to the Product Safety Data Sheet for personal protective equipment recommendations.

PHYSICAL PROPERTIES

Color (Liquid)	Varies by Product
% solids (wt.) (Liquid)	Varies by Product
Elongation	237 to 1000 % +
Low Temp Flex	-7°C

PACKAGING

- 1000 L (264 Gal) IBC Tote
- 205 L (55 Gal.) Plastic Drum
- 18.9 L (5 Gal.) Pails
- 15.1 L (4 Gal.) Pails
- 3.78 L (1 Gal.) Cans

COVERAGE RATES:

WATERPROOF SEALANT:

Benefits: Most puncture resistant – Choose when greater elongation is needed.
Flat/Ponding Surface:
Apply a minimum final thickness of 1 gallon per 15 sq ft (1.4 sq/m). It should require around 4-5 heavy coats to achieve a 60-80 mil (1.5-2.0mm) (DFT) membrane.
Vertical Surfaces:
Apply a minimum final thickness of 1 gallon per 30 sq ft (2.8 sq/m). It should require around 3-4 heavy coats to achieve a 30 mil (0.76mm) (DFT) membrane.

Recoat time: 6-8 hours.
Cure: 24-48 hours.

COLOR SEALANT:

Benefits: Comes in various Colors/Solar reflective (varying degrees) - Choose when greater elongation is needed, and a color is desired.
Flat/Ponding Surface: Apply a minimum final thickness of 1 gallon per 15 sq ft (1.4 sq/m). It should require around 4-5 heavy coats to achieve a 60-80 mil (1.5-2.0mm) (DFT) membrane.
Vertical Surfaces: Apply a minimum final thickness of 1 gallon per 30 sq ft (2.3 sq/m). It should require around 2-3 heavy coats to achieve a 30 mil (0.76mm) (DFT) membrane.

Recoat time: 6-8 hours.
Cure: 24-48 hours.

SILICONE ROOF COATING:

Benefits: 1 application/Solar reflective – Choose when you only want to do 1 coat.

Apply a minimum final thickness of 1 gallon per 50-60 sq ft (4.65-5.57 sq/m). It should require 1-2 coats.

Recoat time: 6-8 hours.
Cure: 24-48 hours.