



MOD-BIT / TORCH DOWN APPLICATION GUIDE



Liquid Rubber has multiple options to coat and waterproof your Mod-Bit / Torch Down roof. Depending on the needs of your project, we offer products with exceptional flexibility & elongation, excellent UV protection, a variety of colors and products with excellent solar reflectivity. Whatever your Mod-Bit / Torch Down roof project needs, Liquid Rubber has a solution.

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PREPARATION

Even the best roofing systems and products begin to break down over time. For a fraction of the cost of re-roofing your mod-bit/torch down roof, you can extend its life (by approximately 10 years) by using Liquid Rubbers' easy to apply waterproofing solutions.

Inspection:

A thorough inspection of the roof establishing proper drainage prior to beginning work must be performed to ensure adhesion and the integrity of the coating. A moisture test should be performed to determine if the insulation is saturated. Moisture will result in blistering and inadequate drainage can result in unforeseen issues with the substrate and create unnecessary ponding.

Inspections should be performed regularly to identify small problems before they become big problems. It is best to apply **Liquid Rubber Roof Coatings** before you have a leak. This kind of preventative maintenance can save you the cost of repairs involved in water damaged interiors and electrical/mechanical components.



General Preparation & Cleaning:

(Prep is 90% of the job!)

Liquid Rubber products must be applied to a clean, dry, and structurally sound surface that is free of sharp edges, efflorescence, laitance, dirt, debris, oil, grease, coal tar, mastics, flaking paint, silicone, other coatings, or contaminants.

Clean using compressed air, a sweeper, or pressure washer, and/or degreaser if necessary to provide a clean bonding surface. (be cautious when introducing water, as the surface must be completely dry for application and cure). It is always best to remove any prior coating or adhesion may be limited to the underlying coating and could delaminate. It is best to do a test to confirm adhesion before application over an existing coating

Scan your roof using an infrared scanner (or equivalent method) to detect hidden moisture. If the roof is not completely dry at the time of application, this water can evaporate and may cause pinholes, blisters, and delamination of your coating.



DETAIL WORK

Detail areas may include vents, skylights, chimneys etc. Pre-cut **Liquid Rubber Seam Tape** to desired length and fit. Remove plastic backing before applying (be careful not to stretch the seam tape when removing the backing). Apply Seam Tape to all seams at perimeter and protrusions (vents, skylights, etc.)

Use pressure to activate adhesive leaving no wrinkles or fish-mouths. Overlap separate pieces of Seam Tape by at least 1 inch. **Geo-Textile applied via the 3-course-method** may be substituted for Seam Tape.

For walls with metal cap flashing, it is recommended to remove the cover, repair any damage to the parapet wall, apply **3 course-method** or **Liquid Rubber Seam Tape** and replace the cap flashing.

(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. **TIP:** Pull your masking tape while the 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.

Application:

Once your preparation is completed, clean and dry, begin your full field application. Begin in the farthest corner and work toward your exit. Work in manageable sections (i.e. 10 ft x 10 ft) and inspect as you go. Lap onto adjoining sections while applying to the new section. Talk to your Liquid Rubber Technical Rep to determine which product is best suited to your application.

Final Inspection:

After the final coating has dried sufficiently enough to walk on and not cause damage, inspect the area for uniformity of membrane thickness and coverage. Inspect for pinholes, blisters, voids, thin spots or other defects. Repair as necessary.



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 (1.5-2.0 mm) (DFT) membrane.

Vertical/Sloped 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 (0.76 mm) (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 Coat 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: 1-2 hours.

Cure: 1-4 hours.

APPLICATION TIPS

- Apply using a 3/8 (10mm) roller, brush or heavy duty airless paint sprayer.
- Ensure drains are present and functioning correctly.
- Apply to dry surface that is free of dirt, loose paint, rust, oil, grease, coal tar, silicone, or other contaminants.
- Apply when temperature is above 10°C (50°F) and rising. (Including overnight temps)
- Apply each coat in an alternate direction to the last coat to ensure even coverage.
- Apply final coat in the direction of slope for positive drainage.
- Apply next coat when dry to the touch with nothing wet underneath and is uniform in color.
- Avoid hot, direct, intense sun when applying.
- Avoid contact with solvents and solvent based cleaners, adhesives, and paints.
- Do not allow to freeze until fully cured.
- Do not combine black products with colored products.
- Do not apply in wet conditions (including fog and dew) or if rain is forecasted within 24 hours.
- Wrap brushes in plastic to use for the next coat.
- Not meant for walking surfaces.
- Seal gaps, cracks, etc. with **Liquid Rubber Sealant & Adhesive** (or equivalent).
- Initial cure(set) within 48 hours or until completely dry.
- 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)
- For best results remove existing paints/coatings and apply directly to the substrate. (Some paints and coatings will not be compatible. Loose/flaky paint may be an indication that the existing paint/coating is not well bonded and therefore your Liquid Rubber solution may fail if applied over it instead of directly to the substrate. Oil based paints, enamels, epoxies, powder coats can be difficult to bond to. Contact your Liquid Rubber technical representative for further direction.)



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.
- Soak up as much material as possible with rags.
- If dried, scrape off as much as you can, (with a razor/scrapper/etc.) then scrub with a brush/wire brush, etc.
- **Colored Products:** Clean with soap and water.
- **Bitumen or Silicone:** Clean immediately with mineral oil/ baby oil for hands and use odorless mineral spirits for surfaces to weaken the material and an appropriate tool to mechanically remove (wire brush, grinder, etc.)
- (test odorless mineral spirits in an inconspicuous area first to ensure no discoloration)
- If dried, scrape off as much as you can. (with a razor/scrapper/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)
% solids (wt) (Liquid)
Adhesion to Metal
Working Temperatures

Various Offerings
49-92% Varies by product
Cohesive Failure
-40°C to + 160°C (Varies)

PACKAGING

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

