



UNDER COATING APPLICATION GUIDE



Liquid Rubber has an innovative solution to waterproof underneath tile, laminate flooring, subfloors and slabs using **Liquid Rubber Foundation Sealant**. It can be applied in multiple applications, to create an elastomeric barrier that provides a waterproof surface, prior to the application of flooring or cladding systems.

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PREPARATION

Liquid Rubber Foundation Sealant is the ideal solution to create a waterproof membrane for covered applications. Easy to apply, with excellent adhesion on standard surfaces, this high-performance coating system will keep moisture out and prevent damage caused by water ingress.

Inspection:

Liquid Rubber products must be installed on a clean, dry, and structurally sound surface that is free of dirt, dust, debris, oil, grease, silicone, coal tar, mastics, other coatings, and other contaminants. To remove old paint, use a paint stripper suitable for the surface (concrete or wood). Be sure that the new wood is sufficiently dried (less than 15% relative humidity). Chemically treated wood should be allowed to dry out, prior to being coated. Concrete must be cured for a minimum of 28 days. All defects should be repaired and cured prior to coating.

General Preparation & Cleaning:

(Prep is 90% of the job!)

Depending on the surface to be coated, prep the surface by suitable means as described below.

For Metal:

Remove any heavy rust/scale with a wire brush. Be sure the surface is clean and fully dry. (scuffing the surface with a wire wheel/brush will also help to increase adhesion)

For New Plywood:

No profiling is required, provided the wood is not factory coated. Pressure treated wood needs to sufficiently dry before coating. Any surface imperfections such as screw holes, knots, or splits should be prefilled with a suitable repair product such as water-based wood filler.

For Old Wood:

If the wood is dirty or weathered, clean the surface with **Liquid Rubber Deck & Patio Cleaner** and allow it to fully dry. Lightly sand the surface to open the pores of the wood. Any surface imperfections such as screw holes, knots, or splits should be prefilled with a suitable repair product such as water-based wood filler. Blow off with an airline or vacuum the surface to ensure it is clean.

For Concrete:

Repair any spalls with a suitable patching product. Repair any cracks with **Liquid Rubber Sealant & Adhesive**. Concrete must be cured for a minimum of 28 days. Etch the surface with **Liquid Rubber Concrete Etch** to remove laitance or efflorescence. Rinse clean and allow to fully dry. (If etching is not practical then grinding, shot blasting or sandblasting may be required).

For OSB:

Priming Will Be Required - While priming may be optional with some surfaces, it is absolutely necessary to apply our **Liquid Rubber Multi-purpose Primer** before coating OSB. OSB stands are bound together with resins and paraffins. Some OSB ships with a thin coating of wax which first needs to be stripped before painting. Some OSB only appears to have a wax surface coating, a result of the high pressure exerted on the material by the manufacturing machines. It is recommended that you sand and clean prior to application of primer and coatings.

For Coated Surfaces:

Sand the existing coating on the surface to remove any gloss and roughen the surface for a better bond. Be sure the surface is clean and fully dry. Use **Liquid Rubber Multi-Purpose Primer** prior to application of any coatings. **Note** - Our products are not compatible with oil-based paints or products containing silicone.

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



DETAIL WORK

Bridge seams, flashing, cracks, corners, joints, around penetrations, etc. using **Liquid Rubber Geo-Textile** applied via the **3-course-method (Liquid Rubber Foundation Sealant – Liquid Rubber Geo-Textile – Liquid Rubber Foundation Sealant)**. Apply a generous 6" wide coat of **Liquid Rubber Foundation Sealant** across the seam and while still wet, embed the **Liquid Rubber Geo-Textile**. Smooth out wrinkles and apply a second coat of **Liquid Rubber Foundation Sealant** to fully saturate and encapsulate the Geo-Textile. Allow the detail work to dry before full application of the coating.

APPLICATION

Masking:

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

Application:

Do not apply products if rain is expected within 24 hours. Using a 3/8" (10mm) microfiber roller, apply **Liquid Rubber Foundation Sealant** to the entire surface at a coverage rate of approx. 20 ft²/gal final coverage. For edges, corners and between wood boards, apply using a nylon/polyester brush. Apply when air and surface temperatures are between 10-30°C (50-86°F). Avoid applying in high humidity over 80% or direct, intense sunlight. Apply multiple coats, allowing approximately 4-6 hours drying time between coats until all the required material has been applied. Be sure to seal around penetrations with **Liquid Rubber Sealant & Adhesive**. High humidity will extend curing times. You can recoat when the material is dry to the touch with nothing wet underneath and is uniform in color.

Inspection:

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

Dry/Cure Time:

Allow 48-72 hours after the last coat before applying flooring or cladding.

Liquid Rubber Foundation Sealant will remain tacky after it cures. Consideration may need to be taken before covering the sealant with flooring or cladding if access will be required at some point in the future.

For tiling applications - Install tile directly onto the coating using a Polymer Modified thin-set grout.

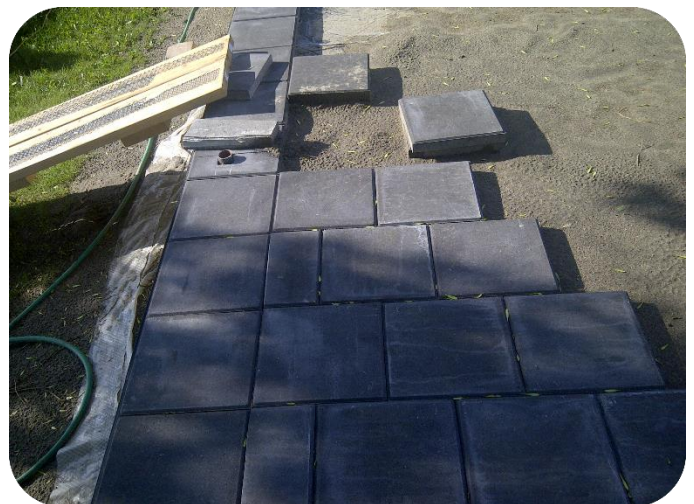
For under slab applications - Place concrete directly onto the coating.

For laminate flooring applications - Lay a slip sheet of 6 mil poly tarp over the field of the cured coating to prevent the laminate flooring from becoming stuck to the coating.

For below subfloor applications - Cover the bottom of the floor joists with a slip sheet of 6 mil poly tarp to prevent the subfloor from becoming stuck to the coating.

Coverage:

Apply a minimum final thickness of 20 sq. ft. per G, 100 sq. ft. per 5G pail for a 40-50 mil. (1-1.3 mm) membrane.





APPLICATION TIPS

- Apply using a 3/8 (10mm) roller or brush.
- Apply to a clean, dry surface that is free of dirt, silicone, loose paint, rust, oil, grease, coal tar, or other contaminants.
- Apply when the temperature is above 10°C/50°F and rising including overnight.
- Use **Liquid Rubber Deck and Patio Cleaner** to clean the surface.
- Use **Liquid Rubber Concrete Etch** to etch concrete.
- For extra adhesion, performance, and longevity and to create a moisture vapor barrier, it is necessary to use 1 heavy coat of **Liquid Rubber Multi-Purpose Primer**.
- Apply each coat in an alternate direction to the last coat to ensure even coverage. (one direction only for deck boards)
- Apply the next coat when dry to the touch with nothing wet underneath and is uniform in color. (typically 4-6 hours)
- 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.
- Wrap brushes in plastic to use for the next coat.
- Curing time depends on temperature, humidity, and airflow.
- Do not apply in wet conditions (including fog and dew) or if rain is forecasted within 24 hours.
- 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.)
- It is always a good idea to apply a small test patch in an inconspicuous area to ensure adequate adhesion prior to full application.

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.
- **Bitumen:** Clean skin immediately with mineral oil/baby oil and other surfaces with odorless mineral spirits. (test first to ensure no discoloration)
- If dried, scrape off as much as you can. (with a razor/scrapper/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)	Black
% solids (wt.) (Liquid)	60%
Elongation	600%
ASTM E-96 A	0.0632 Perms

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