

DIY Liquid Rubber

PREPARATION GUIDE

READ

ME!

SUCCESSFUL APPLICATION IS THE RESPONSIBILITY OF THE DIY APPLICATOR

As professional waterproofing applicators we have used Liquid Rubber for large and small projects for over 14 years, and would like to provide you with some hints and tips for the **DIY APPLICATOR**:

Liquid Rubber does not require special equipment, being eco-friendly, safe for animals, plants and human drinking water.

It is easily applied using a paint brush or a roller, and typically cures within **24-48 hours** (depending on application thickness, temperature and relative humidity) into a tough flexible waterproof barrier.

The Liquid Rubber membrane has excellent adhesion to almost all surfaces and substrates **if applied correctly. It is all about preparation! See below for a few tips.**

SURFACE PREPARATION

As with all waterproofing membranes, the surface must be dry and free of anything that could adversely affect adhesion.

- Remove all loose, scaling, peeling, blistering, chipping, cracking, chalking or gravel, dust, dirt, sand, soot, grease, oil, uncured tar, wax, soap film, animal fats or petroleum-based residue, coal tar, chlorine, salts, efflorescence or any other chemically reactive substance (solvents) that may affect adhesion.
- Wire brush, or if needed high-pressure water blast should be used to thoroughly clean all surfaces prior to application if any of the above conditions exist.
- Surface should be free of all mould, mildew or any other living organism and **COMPLETELY DRY is preferred**. However Liquid Rubber can still be applied to a slightly damp surface but this will slow down the curing process.
- Mildew and similar growths can be killed with 1 part household bleach to 2 parts water, followed by a thorough rinse with clean water.
- All surfaces must then be allowed to **THOROUGHLY DRY** before proceeding with application.
- If using sealants in the joints and junctions etc. make sure the product is **non-solvent based or non-acetic**. We recommend using an acrylic sealant and allowing it to dry completely.
- If using polyurethane sealant they must be allowed to completely cured before applying Liquid Rubber as the solvents in some polyurethanes will affect the Liquid Rubber (some even after they're cured).

CURING TIMES

- Typically cures within 24-48 hours (depending on application thickness, temperature and relative humidity).
- You will notice the product is touch dry within 2-3 hours, however the Liquid Rubber is still going through a very important process called "curing" which may take one to several days to complete.
- Curing is the process where the rubber becomes single flexible membrane. Once cured Liquid Rubber can contain water on a continuous basis. This process can take between 5-7 days in warm weather or longer if moisture is held within.
- If the surface remains damp (i.e. underground concrete ponds surrounded by damp soil) this will greatly extend the curing process. **DO NOT** fill a pond, water feature, tank etc. Until the curing process is completed.
- If "active" water is trying to push through a wet membrane – it will not cure.
- After the membrane has thoroughly cured, inspect for cracks and out gassing holes (blisters) or any other surface irregularities that may need to be prepared. This is where **Geotextile Bandage** is used.
- Blistering can occur if vapour is trapped in substrate. Allow blisters to dissipate over time – repair if holes occur.

Product Safety/ Storage

- Liquid Rubber is a non-flammable liquid and does not present any storage or transportation hazards.
- Store all Liquid Rubber in a cool dry space over 5 °C – **DO NOT ALLOW PRODUCT TO FREEZE**
- Unused Liquid Rubber will last over 6 months if BUCKET REMAINS TIGHTLY SEALED WHEN NOT IN USE.
NB: Large projects and complex surfaces should be applied by F.E.W Waterproofing – we are Australian Certified Liquid Rubber Applicators. PH 03 8812 2918



LIQUID RUBBER USES

Liquid Rubber – Bush/Roll On is used as a protective coating to prevent water and corrosion damage.

LR-BR can be used for rust protection of ferrous materials and is also of value for noise and vibration dampening. It may also be applied to concrete structures, slabs and parking decks. The high viscosity of **LRBR** allows it to be used to cover small cracks, or to coat vertical surfaces.

APPLICATION

LR-BR is water based environmentally safe alternative to conventional heat-applied or solvent based waterproofing systems.

When cured, Liquid Rubber will form a continuous, seamless & flexible membrane.

LR-BR is a single component product that may be applied using a brush, roller or squeegee. It can also be poured on or spray applied using specially designed spray equipment.

Since **LR-BR** cures by evaporation, an application temperature of 15 - 40°C is recommended. Apply in thin coats. The product fully cures within 24 hours at 30°C and 50% relative humidity, when applied at a thickness of 1 mm.

LR-BR should be applied to a dry surface which is free of dirt, debris, oil or grease. Application is not recommended if heavy rains are imminent, or in high humidity environments. For best results apply in thin coats and leave to dry for at least 12 hours. Joints or cracks in the surface should be reinforced using **GEOTEXTILE Reinforcing Cloth**.

LR-BR can be applied between 1.2 – 4.2 L/m² for a dry film thickness of 1mm – 3mm protective membrane.

Typically **LR-BR** dries to the touch in one hour @ 30°C and is completely cured in 48 hrs. This curing time may vary depending on temperature and relative humidity.

LIMITATIONS

LR-BR is mildly alkaline. When applying this product observe appropriate safety precautions, wear gloves, eye protection and other suitable protective equipment. For further information please consult the product MSDS.

LR-BR should not be applied when the ambient temperature is below 15°C. The uncured membrane may be damaged if frozen. Do not apply to wet surfaces or directly before rain. Some surface base coat materials such as coal tar or surfaces with solvents are unsuitable for use with **LR-BR**.

CAUTION

For industrial use only. Keep out of the reach of children. Avoid storage below 5°C. Please consult the Material Safety Data Sheet before using **LR-BR**.

THIS PRODUCT IS NOT SUBJECT TO THE CONTROLLED PRODUCTS REGULATIONS.

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