Liquid Rubber New Zealand

Cohe Group
Industrial Compound Specialists

## Simple Waterproofing Solutions


# WATERPROOF SEALANT

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## Product Description

Liquid Rubber Waterproof Sealant is a multi purpose, medium viscosity liquid specifically designed as an environmentally safe sealant for waterproofing and corrosion protection to both horizontal and vertical surfaces. As a permanently flexible and seamless coating, Liquid Rubber Waterproof Sealant produces a fully adhered chemical waterproof coating that resists cracking and ageing.

Liquid Rubber Waterproof Sealant is an elastomeric modified bitumen emulsion having a medium range viscosity suitable to seal around roof penetrations and sealing small cracks in the concrete. It is applied as a liquid and when cured forms a flexible elastic membrane able to withstand stresses and vibrations without cracking or peeling from the surface. It is applied using a brush, roller or spray pump.

Liquid Rubber Waterproof Sealant is a water based environmentally safe alternative to conventional hot applied or solvent based waterproofing systems. It is unaffected by a range of acids, alkali's and waterborne salts, and protects against ultra violet rays, salt, thermal cycling and is resistant to biological deterioration.

It can be brushed, rolled or sprayed over many existing substrates including but not limited to foundation and roof repairs, water-proofing planter boxes, shower stalls and small ponds as well as horse floats and camper-vans.

## Features & Benefits

- Non-flammable and low odour
- Non-toxic, free of VOC's & water based
- Easy clean-up using water
- Conforms to requirements of the: Building Code of New Zealand as a waterproofing membrane.
- Can be over-coated using almost any decorative or industrial finishing that is water-based
- Has excellent adhesion to most substrates including brick, masonry, concrete block, concrete, stone and timber

## Typical Applications

- Flat roofs
- Internal gutters
- Vents/Skylights
- Foundation walls
- Ponds/Water features
- Motorhomes/Caravans
- Horse trucks
- Steel/Metal protection
- Shipping containers
- Balconies/Decks
- Containment areas
- Flasgins, parapet walls

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# Basic Application Instructions

Liquid Rubber Waterproof Sealant is a single component that may be applied using a brush, roller or squeegee, or a piston type spray pump.

### SURFACE PREPARATION

Liquid Rubber Waterproof Sealant Should be applied to a dry surface, free of dirt, debris, oil or grease and should not be applied when the ambient temperature is below 5°C or above 30°C, or if rain is expected within 24 hours of application. All surfaces to be treated must be structurally sound; and existing coatings, adhesives, efflorescence should be removed to achieve maximum bond strength and resistance to hydrostatic pressure. New concrete surfaces need a minimum 30 days before application. New masonry surfaces should be allowed to cure a minimum 48 hours prior to application. Exterior surfaces should be power washed with a minimum 200psi to clear any surface contaminants.

### INSTALLATION

The desired thickness is achieved by applying multiple thin coats. With joints or cracks, a fabric reinforcing layer is recommended. Liquid Rubber Waterproof Sealant coverage is around 1 Litre/ $m^2$ (2 coats). Typically Liquid Rubber Waterproof Sealant is cured within 24 hours at 20°.

Care must be taken to work the material into the surface to fill voids and avoid pinholing. A minimum of one coat for efflorescence and rising damp, two coats for any waterproofing is recommended and care should be taken to ensure uniformity of material and the required coverage is maintained.

The final coverage rate for all surfaces should be a minimum of 1mm to achieve optimum properties. In the event that this coverage rate is not achieved in two coats, further coats should be applied to achieve this.

Allow to cure for 48 hours before applying Liquid Rubber Smooth or Textured Coating. Care is necessary to ensure the waterproofing membrane coating is not damaged in any way during subsequent treatments.

It is recommended that if Liquid Rubber Waterproof Sealant is exposed to the UV sunlight, then Liquid Rubber Smooth or Textured Coating is applied over the top to protect the sealant.

# Safety Precautions

Keep containers tightly closed out out of direct sunlight. In case of contact with eyes, flood eyes repeatedly with potable water and call a doctor. Do not injest. KEEP OUT OF REACH OF CHILDREN. Dispose of unused product and containers in accordance with local guidelines.
ADDITIONAL INFORMATION IS LISTED IN THE MATERIAL SAFETY DATA SHEET.

# Clean Up

Equipment can be cleaned with soap and water prior to cure of material. Baby oil helps remove cured product off hands.

# Packaging

1L ( 1-2 m2 coverage for 2 coats)*

4L (4-8 m2 coverage for 2 coats)*

10L (10-20 m2 coverage for 2 coats)*

20L (20-30 m2 coverage for 2 coats)*

*Please allow an extra 0.5L/sqm for concrete or rough/porous surfaces

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## Physical Properties (Liquid)

| PROPERTY | TYPICAL RESULTS |
|---|---|
| Colour | Brown to Black |
| Specific gravity (liquid) g/cm3 | Approx. 1.0 |
| Odour | None |
| Volatile organic compounds | Contains no solvents |
| Solids Content | 58-60% |
| Viscosity, Brookfield (cps) | 12,000-15,000 |
| pH | 10-12 |
| Water tightness after impact | Passed (no leakage) |
| Water tightness CGSB 37-GP-56 | Zero Leakage |
| Chemical resistance ASTM G 20 | Resists salt water and many organic and inorganic solutions |
| Accelerated weathering (Xenon arc) | No deterioration of the film |
| ASTM G 155, 250 Hrs | >90% retention of original tensile strength |
| Tensile strength ASTM 0412, (psi) | 50 |
| Elongation, % | >950% |
| Recovery ASTM D 412, % | >90% |
| Adhesion to concrete ASTM C907 | 765kPa |
| Low temperature mandrel -10o | Passed |
| Hardness ASTM D2246 | 50 Type A |

## Limitations

Liquid Rubber Waterproof Sealant should not be applied when the ambient temperature is less than 5°C or above 30°C  The uncured membrane may be damaged if frozen so should not be applied to wet or frozen surfaces or directly prior to rain. Some surface base coat materials such as coal tar are unsuitable for use with Liquid Rubber Waterproof Sealant.

The product should be applied whilst the surface temperature is between 10–35˚C. The product will cease to cure below 10˚C. Curing time will also be adversely affected in situations where relative humidity is >85%.

Tiling can commence after 24 hours cure of Liquid Rubber Waterproof Sealant, although should not exceed a maximum of five days. Installer is to ensure that there is no surface contamination during this period.

In enclosed areas, ventilation must be provided during curing cycle to enable adequate evaporation of the water.

Liquid Rubber Waterproof Sealant is not classified as a trafficable membrane.

Please consult technical service with any questions.

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