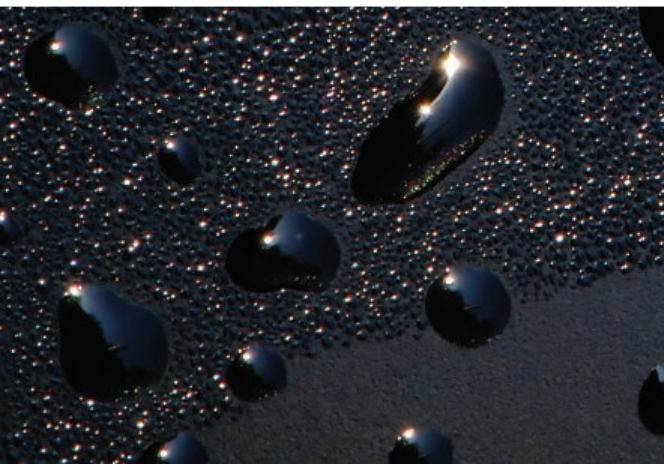
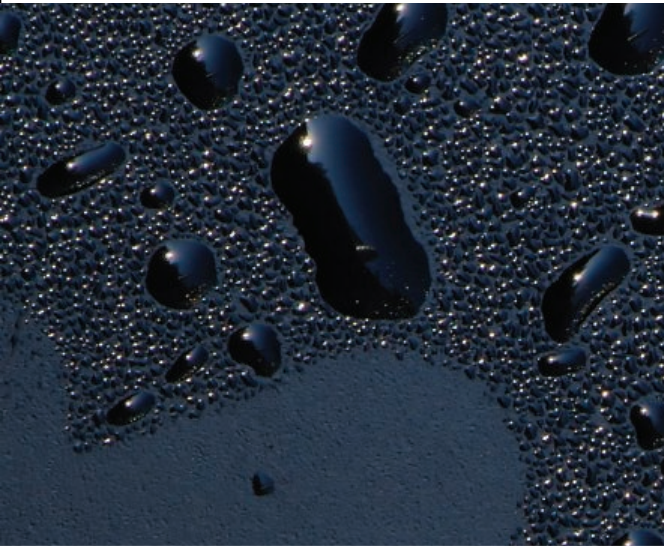


REV:6-30/09/15

# Liquid Rubber Concrete Specification



# Liquid Rubber

## Concrete Specification

### Contents:

1. Preparation
2. Application
3. Additional Information
4. Things To Be Aware Of When Applying To Concrete

# Liquid Rubber Concrete Specification

## 1. Preparation:

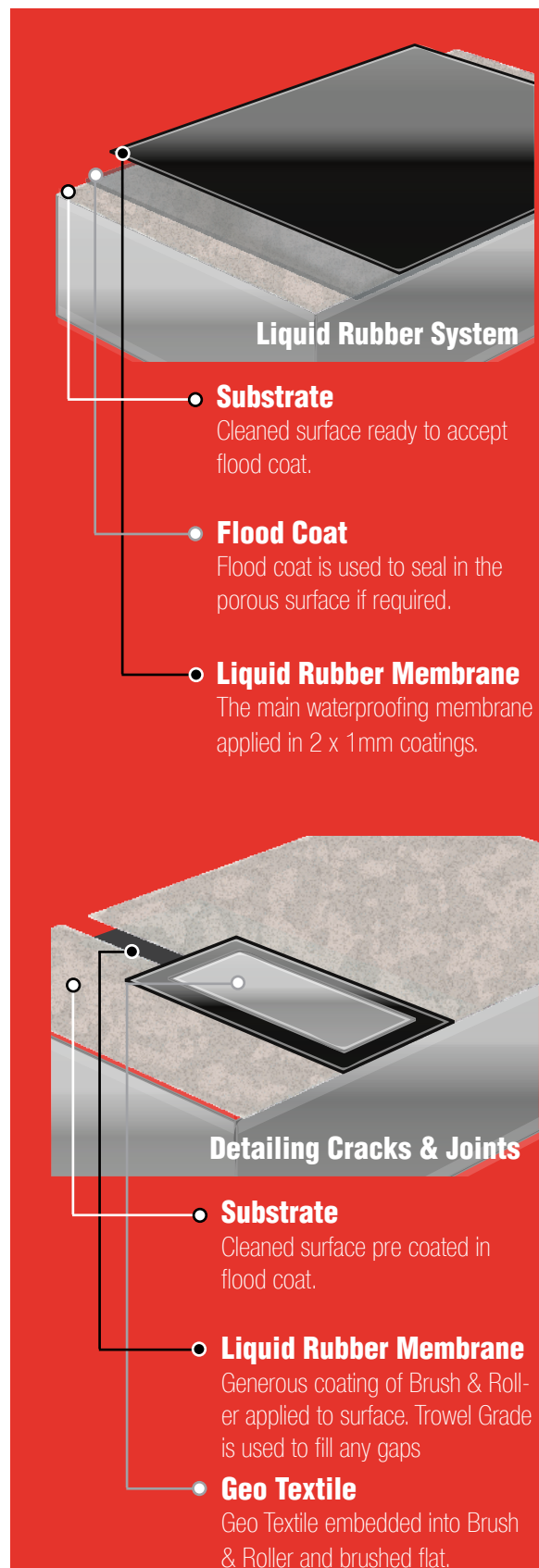
Prior to commencing the existing roof should be thoroughly cleaned down to remove all dirt, fungal growth, loose solar coverings, dust etc. We recommend power washing the roof with a minimum pressure of 2000 psi however it is the contractors responsibility to determine the preferred method of cleaning. The main criteria are to provide a clean, dry surface to ensure the materials can key to the surface and not to the friable material.

**Liquid Rubber Flood Coat** On completion of the cleaning works we recommend coating the whole of the roof area and upstands with Liquid Rubber Flood Coat. The flood coat can be applied by brush, roller or airless spray at an application rate of approx. 4-5 sq/m per litre.

**Areas of standing water** In accordance with good roofing practice areas of standing water should be avoided. Self-levelling compound can be applied to such areas. LRS Self leveller kits are also available with a curing time of approx. 20 minutes.

**Cracks in the existing surface** should be repaired using Liquid Rubber Brush & Roller and GeoTextile reinforcing membrane. Larger cracks should be filled with Liquid Rubber Trowel Grade.

**Upstands** to existing services, flashings, parapets etc. should be covered with Brush & Roller and GeoTextile reinforcing membrane.





# Liquid Rubber Concrete Specification

## Preparation:

Applying LRS Brush & Roller and GeoTextile reinforcement to upstands, cracks etc

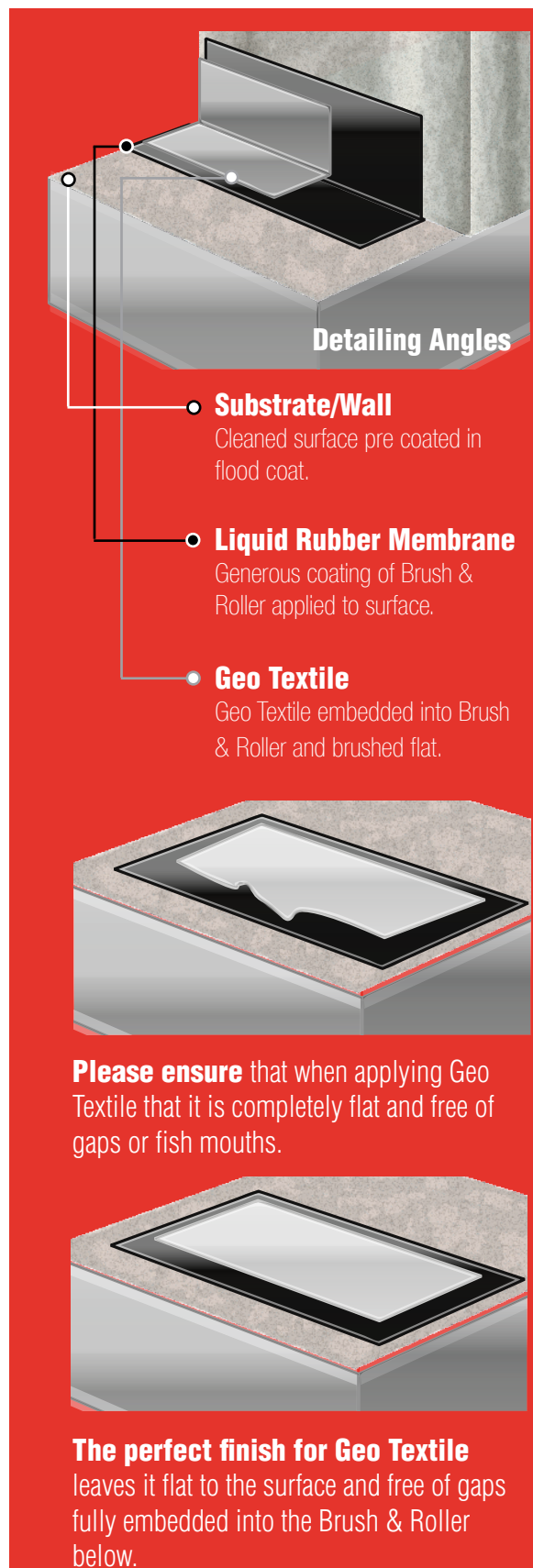
Apply a liberal first coat of Brush & Roller to the areas concerned. Pre-cut the Geo Textile reinforcing tape to size and bed into the Brush & Roller, shiny side up. Using a clean brush smooth the GeoTextile out forcing Brush & Roller through the GeoTextile. Apply extra Brush & Roller as required to fully coat the GeoTextile, spread any surplus Brush & Roller onto the next upstands to be coated. Try to avoid creating creases or blisters in the GeoTextile.

Where the membrane is required to be dressed into a mortar course it should be raked out and re-pointed with Liquid Rubber Trowel Grade. When applying the Liquid Rubber onto brickwork without dressing into the mortar course the membrane should be finished in the middle of the brick course.

When applying to services, vents etc. the GeoTextile reinforcing membrane should be pre-cut to closely follow the profile of the upstand. The reinforcing membrane should be fully bedded into the Brush & Roller, care should be taken to avoid any bridging or creases in the membrane.

**Outlets** inspect the drain ware and outlets to ensure the free flow of waste water. Remove any covers or gratings, apply GeoTextile bedded into Liquid Rubber Brush & Roller as far into the outlet as possible.

**Existing repairs** loose or unstable repairs to be removed and new repairs carried out using GeoTextile reinforcing membrane bedded into Liquid Rubber Brush & Roller.



# Liquid Rubber

## Concrete Specification

**Detailing** Please leave between 1-2 hours for detailing to be fully cured before application of main membrane.

**Coverage Rate** When using Liquid Rubber Brush & Roller an application rate of 1ltr per sq/m per coat is to be maintained. This can be achieved by measuring the area to be covered and by weighing or decanting the necessary volume, 1Kg = 1Ltr.

### Liquid Rubber Approved Contractor Training

LRS host regular training programmes to provide contractors with the necessary skills and product knowledge to become a fully certified Liquid Rubber Approved Contractor. For more information please call our

## 2. Application:

**Liquid Rubber Brush & Roller** is a two coat system applied by brush, roller or airless spray. The contractor is to determine the most suitable method of application.

L.R. Brush & Roller should be applied at an average rate of 1.0Lt per sq/m per coat. Allow the first coat to dry before applying the second coat. Use area to volume calculations to ensure the correct coverage. Plan your application method working towards your exit point.

**Liquid Rubber Instant Set Spray Grade** is a specialist single coat application normally used on larger contracts and can be applied at a rate of approx. 800 sq/m per day. Instant Set Spray Grade has to be applied by an approved/trained spray team using bespoke spray equipment. Please consult our specific manual for coverage, methodology, advice and training.

Arrangements can be made to hire a spray machine to apply the main membrane with all preparation work being carried out by the contractor. Contact our technical help desk for further information.

# Liquid Rubber

## Concrete Specification

**Limitations** Liquid Rubber should not be applied when the ambient temperature is below 5°C. The uncured membrane may be damaged if frozen. Do not apply to wet or frozen surfaces or directly prior to rain.

**Caution** Avoid storage below 5°C, keep out of direct sunlight. Please consult data sheets before using Liquid Rubber.

### 3. Additional Information:

**Liquid Rubber Optional Finishes** Liquid Rubber is UV resistant and is not significantly affected by solar gain.

A coloured aggregated system can be applied to the Liquid Rubber Membrane by broadcasting 2kg sq/m of LRS aggregate into a wet Liquid Rubber Brush & Roller holding layer of 0.5ltr per sq/m to offer a more hard-wearing system with thermal benefits.

**Foot Traffic** Please consult our separate specification for anti slip.

**Insulation:** If additional insulation is required please consult our separate specification sheet (Additional Insulation)

**Handling** Keep containers upright and tightly closed when not in use and keep from freezing.

**Maintenance** In accordance with good roofing practice it is the clients responsibility to ensure that the roof is regularly inspected and maintained to ensure the membrane is at its optimum performance. This includes removal of foreign materials and dirt and the repair of any damage by tradesmen, falling debris etc. For further information please consult our separate data sheet for maintenance and repair of Liquid Rubber membranes.

## Liquid Rubber Concrete Specification

**Latency** Please ensure freshly or recently poured concrete is thoroughly cleaned of all latency. This is a dust left over from the concrete application and subsequent curing and will cause the membrane to debond in time and may effect all liquid and membrane systems. For more information please call our technical help desk.

### 4. Things to be aware of when applying to concrete:

Concrete when new continues to emit or absorb water vapour, often, even when it appears to be dry.

Liquid Rubber Systems when applied will create a vapour barrier preventing vapour emission, causing an accumulation of water vapour pressure.

It is impossible to say how long concrete needs to be left to be sure it is “dry” as there are too many factors affecting this, the quality of the concrete, the amount of rain it receives, the temperature and humidity.

If the concrete has heavy rain on it, it will absorb some of this and take longer to dry. This can mean that in situations where the roof has been exposed to heavy rain and then exposed to hot temperatures, bubbles or blisters can appear before the Liquid Rubber System fully bonds to the roof surface; which can take up to 72 hours. Where the material has fully bonded no such blistering will occur.

In some cases the vapour pressure can cause the bubbles to burst creating pin holes.

Once the Liquid Rubber System has fully bonded no bubbling will occur as the bond strength of the membrane is circa 200 PSI whereas the vapour pressure will only be 1 PSI.

## **Liquid Rubber**

### Concrete Specification

### **Things to be aware of when applying to concrete:**

For these reasons we recommend the following when applying the Liquid Rubber System to new concrete –

- Leave the new concrete for as long as possible before applying the membrane, ideally over 28 days.
- Brush any loose dust from the surface
- Apply the Liquid Rubber Flood coat to the concrete surface to settle the dust.
- Apply the Liquid Rubber System in line with manufacturer's instructions
- 3 days after application walk the roof to see if any bubbles or blisters have appeared.
- Where this has happened split the bubbles releasing the water and re-apply the Liquid Rubber to these areas
- Leave the affected areas a further 3 days to ensure that no further bubbles appear.

**NOTE** No new bubbles will appear after the membrane is fully bonded to the roof and the appearance of ANY bubbles is most likely on roofs that have been exposed to water or heat or a combination of both.

For any more information please don't hesitate to contact our Technical Help desk.

### **Contact Us:**

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