

## LiquiTank Specification

**Liquitank Below ground, basement and podium deck and reinforced concrete retaining walls applications. (For none exposed surfaces)**

### **SURFACE FINISHES - BLOCK WALLS**

Pointing must be flush. If not flush, apply a smoothing coat or fill pointing until flush. If the blocks have an overly-pitted or porous surface, small gaps or surface cracks, fill with a rub of sand or cement mortar until smooth.

### **SURFACE FINISHES - ICF**

Minimise the gaps between blocks as much as possible. Do not use site damaged blocks that will leave gaps at joints.

### **CHANGES OF DIRECTION**

Changes in direction (both internal and external) can be reinforced with Strengthening Tape adhered with an initial coat of LiquiTank ready for the main membrane application.

### **SURFACE PREPARATION - FOUNDATIONS**

Mechanical surface preparation by grit-blasting, grinding or scabbling is required to remove surface laitance and other surface contamination from the surface of the concrete.



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## **SURFACE PREPARATION – WALLS**

- Fill all gaps, holes and depressions with Mastic Adhesive
- Remove all snots and surface irregularities

## **PROTRUSIONS**

Protrusions through the membrane such as pipes or cable ducts should be reinforced with Strengthening Tape embedded into LiquiTank hand applied.



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Please note the following is an application guide on how to use Liquitank Spray grade Instant Set which is applied using a specialist spray machine. Please request alternative application guide if you are using our Liquitank hand applied version.

Prior to using LiquiTank, Spray grade and Hand Applied, please ensure that the product is fully mixed and has an even consistency throughout the container as the product may settle and separate slightly in storage. Do not attempt to thin the product with any other material as this will lead to product damage and render it unusable.

## **Priming**

All surfaces – For best results when applying to concrete / surfaces subject to dust a thin layer of flood coat should be applied. This will penetrate the surface and promote positive adhesion. Depending on temperature and environmental conditions this should be ready to accept the first coat of rubber within 1 hour.

Primer coat is the same product as the spray grade and can be taken from the total volume of spray grade being applied to the project. In order to create a primer coat simply apply the spray grade on its own (without catalyst) at a rate of 0.15 – 0.3 litres per square meter ensuring a full coating of the surface.

## **Joints**

All joints, both vertical and horizontal require additional reinforcement. Apply One coat of LiquiTank at 1ltr/m<sup>2</sup> over the joint, then directly embed the reinforcement tape into the Liquitank hand applied, ensuring the product fully soaks through and the tape is completely embedded.

## **APPLICATION CONDITIONS**

- Do not apply to concrete that is less than 28-days old
- Concrete may be dampened from rain but not wet
- Do not apply to wet or frozen surfaces, during or immediately prior to heavy rain
- Apply at a surface temperature of +5°C rising

## **STIRRING & MIXING**

As a single component product, prior to application it is recommended to be mixed using a drill and paddle mixer, leaving the product at an even consistency. Do not add water.



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## Main Application

### Horizontal surfaces.

Liquitank Instant set

1. Apply Liquitank spray grade at a total rate of 3 litres per square meter ( which includes the primer coat) ensuring that the entire surface is coated at an even coverage rate, this is achieved by monitoring the barrels and applying multiple times across the same area in a cross hatch fashion.
2. Once applied the coating will continue to expel water (weep) for a short period of time post application, this is normal. Whilst the application is instantly waterproof full cure and thus full bond can take up to 72 hours as such do not attempt to remove the product from the surface prior to 72 hours.
3. Once the surface is dry and free from water inspect the surface for pinholes or snots, any defects should be snagged using brush or roller application onto these areas.
4. If the intention is to coat the surface with a screed or a water based adhesive or indeed an additional layer of rubber for adhesion to tiles it is imperative that you wash the surface down to remove latent salt created during the curing process. In order to do this, use a low power hose.
5. Liquitank is not designed as a floor coating to be left exposed, as such the application of a screed or similar is recommended if the area is to be trafficked.
6. Please leave a minimum of 72 hours prior to over coating with screed.

Whilst the product initially cures within 24 hours, full cure can take up to 72 hours. Avoid direct contact with surface if possible. If you do need to walk on the surface prior to over coating exercise caution and repair any mechanical damage caused using LiquiTank Hand Applied. For more advise please contact our technical team.

## **Vertical surfaces.**

### **Liquitank Spray grade**

1. Apply Liquitank spray grade at a rate of 2 litres per square meter ( which includes the primer coat) ensuring that the entire surface is coated at an even coverage rate, this is achieved by monitoring the barrels and applying multiple times across the same area in a cross hatch fashion.
2. Once applied the coating will continue to expel water (weep) for a short period of time post application, this is normal. Whilst the application is instantly waterproof full cure and thus full bond can take up to 72 hours as such do not attempt to remove the product from the surface prior to 72 hours.
3. Once the surface is dry and free from water inspect the surface for pinholes or snots, any defects should be snagged using brush or roller application onto these areas.
4. If the intention is to coat the surface with a screed or a water based adhesive or indeed an additional layer of rubber for adhesion to tiles it is imperative that you wash the surface down to remove latent salt created during the curing process. In order to do this, use a low power hose.
5. Liquitank is not designed as a finish coating to be left exposed, as such the external area should be either protected or backfilled, if back filling it is essential that a protective sacrificial surface is applied, i.e. a geotextile or protection boards to ensure the elastomeric coating is not damaged by backfilling
6. Please leave a minimum of 72 hours prior to over coating or back filling.

Whilst the product initially cures within 24 hours, full cure can take up to 72 hours. Avoid direct contact with surface if possible, however protection boards can be applied once the surface has ceased to expel water. For more advice please contact our technical team.

## **EXTENT OF APPLICATION**

It is usual for the LiquiTank to extend upwards from the foundation and to terminate at DPC, slightly above external ground level.

## **PROTECTION OF THE MEMBRANE**

LiquiTank must be protected prior to back-fill. Suitable protection includes:

- Protection board
- Suitable insulation



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## **CLEANING**

- Large spills - Pump into plastic containers and rework/ dispose as per local legislation.
- Small spills - Use a non-combustible absorbent and shovel into a suitable container for disposal.

## **STORAGE**

-Store in dry conditions at temperatures between 5°C and 25°C with containers fully sealed. Do not expose to freezing conditions. Part-used containers can be re-used as if new. Seal the container after application and use within one year of first opening, stirring the product before application.

## **TECHNICAL RESOURCES**

The Product Data Sheet and MSDS can be attained upon request by contacting the EcoProof Technical Team.

## **LIMITATIONS**

Do not apply to frozen surfaces or during or immediately prior to heavy rain.

## **HEALTH & SAFETY**

Use appropriate PPE for the environment the system is installed within. Use products only as stated within the Data Sheet, MSDS and Specification.

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