

LiquiTank Specification

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

SUBSTRATE

This Application Guide describes the requirements of construction, the preparation of the substrate and application of the membrane to reinforced concrete retaining walls.

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.



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.





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Priming

All surfaces – For best results when applying to concrete / surfaces subject to dust a thin layer of flood coat can be applied by either airless spray, brush or roller @ 0.1-0.2ltrs per m². 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 (flood coat) can be created using standard Liquitank hand applied mixed with deionised water at a ratio of 1:7 (1 litre Liquitank to 7 litres deionised water) using a drill mixer.

DO NOT USE TAP WATER AS THIS WILL DESTROY THE PRODUCT

Joints

All joints, both vertical and horizontal require additional reinforcement. Apply One coat of LiquiTank Hand Applied 1ltr/m² over the joint, then directly embed the reinforcement tape into the Liquitank, ensuring the product fully soaks through and the tape is completely embedded.

Main Application

Horizontal surfaces.

Hand Applied Liquid Tank

1. Apply first coat of Liquitank at a rate of 1 litre per square meter, using brush roller or airless spray, ensuring an even coating across the entire surface.
2. Once first coat turns from brown to black inspect the surface and address and pinholes
3. Apply second coat of Liquitank at a rate of 1 litre per square meter, using brush roller or airless spray, ensuring an even coating across the entire surface.
4. Once second coat has turned from brown to black inspect the surface for pinholes.
5. If pin-holes present, use a brush to address these areas with a further coat of Liquitank to ensure surface is completely coated.
6. 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.
7. 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 and the surface may remain tacky to touch well beyond this time. Surface settlement over time occurs from natural settling of dust etc. Avoid direct contact with surface if possible. If you do need to walk on the surface there are several options including using plastic overshoe covers, or the addition of sprinkled sand. Any mechanical damage caused post application can be remedied using more LiquiTank hand applied. For more advice please contact our technical team.



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Vertical surfaces.

Hand Applied Liquid Tank

1. Apply first coat of Liquitank at a rate of 1 litre per square meter, using brush roller or airless spray, ensuring an even coating across the entire surface.
2. Once first coat turns from brown to black inspect the surface and address and pinholes
3. Apply second coat of Liquitank at a rate of 1 litre per square meter, using brush roller or airless spray, ensuring an even coating across the entire surface.
4. Once second coat has turned from brown to black inspect the surface for pinholes.
5. If pin-holes present, use a brush to address these areas with a further coat of Liquitank to ensure surface is completely coated.
6. 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
7. 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 and the surface may remain tacky to touch well beyond this time. Avoid direct contact with surface if possible, however protection boards can be applied whilst the surface is still tacky. For more advice please contact our technical team.

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, settlement / separation may occur in the container, ensure the product is fully mixed prior to application. Do not add water.

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.