TANK PAD PREPARATION

This guide for tank pad preparation should be followed to ensure a correct foundation is laid for your tank.

Damage to your tank due to failure or movement of the tank pad is not covered by our warranty. Please keep in mind that 1000L of water weighs 1000kg, and this is a significant force. Soft ground may subside under the weight of a full tank.

The water tank pad preparation details outlined below employ the same method for all round design, slimline design and under deck design polyethylene (poly) rainwater tanks.

All tank pads need to be flat and level with uniform compaction. **Pad level needs to be in range of +/- 1.0 degrees.**

CONCRETE PAD – RECOMMENDED CHOICE



A concrete slab pad is the most suitable base for your poly water tank. Construction of a concrete pad for a water tank needs a minimum of 100mm thick concrete and one layer of F72 mesh, on a flat level area.

If the tank is to be positioned in an area that is on a slope, then the thickness of the slab is to be increased and the mesh to be a higher grade.

A professional tank installer or plumber should install your tank.

Polyethylene tanks will expand when filled. Allowance for expansion is required when plumbing work is carried out.

The slab must be flat, smooth, and level with no more than a 1˚slope.

All tanks come complete with a ball valve, stainless steel mesh strainer and a tank overflow fitting.

Please note, the following errors will void your tank warranty:

- The tank pad is undermined which can be due to uneven, soft surfaces, or if there is inadequate overflow length.
- The tank base is on top of uneven ground with insufficient tank pad preparation.
- The tank pad is undersized.
- Use of materials to create a tank pad that are not recommended in the guide (wooden sleepers, corrugated iron, etc).
- The tank has unsupported pipes installed.

Finish with a metal trowel is advisable.

Slabs must be large enough to support all edges of the tank and should be at least 100mm longer and wider than the tank.

Slabs must be allowed to cure for at least five days prior to placing tank on slab.

CRUSHER DUST PAD



Crusher dust pads are **only suitable for larger diameter round tanks.** The crusher dust must have no particles larger than 5mm diameter.

To achieve the best crusher dust pad, follow the below proven steps:

1. Cleared chosen installation site down to firm, flat and leveled earth, remove vegetation and other debris.

2. A retaining border must be placed around the crusher dust to ensure it does not erode over time or is undermined by heavy rain or burrowing animals.

3. Apply formwork 100mm larger than the tank size.
   Note - *Formwork should be environmentally sustainable, H4 or equivalent treated pine 140 x 45mm.*

4. Spread the crusher dust 100mm thick into the formwork over the entire base.

5. Screed the crusher dust and check that the material is level and flat with no more than 10mm variation across the pad. Excess slope/gradient can lead to an unstable tank.

6. Compact the pad with a plate compactor. Ensure there is adequate compaction (minimum allowable bearing pressure of 120kPa) to avoid subsidence.

7. Place the tank into position ensuring that the crusher dust pad is not disturbed during placement. The tank shall be filled immediately upon placement up to at least 10% of its capacity.

8. Coarse aggregate (Blue Metal is our recommended choice) shall be spread over any exposed crusher dust, after the tank is positioned, to prevent erosion.

NOTE: Care must be taken when positioning the tank on a crusher dust base to ensure it does not dig in and create an uneven surface.

It is also best practice to ensure the water tank overflow is plumbed away from the water tank and base, ideally back to existing storm water drainage, or if no such drainage exists, to a designated rubble pit.

The overflow water must not be left to simply wash down the side of the water tank to the base of the tank, where it can result in erosion of the metal crusher dust pad. Regularly check and clean the inlet leaf strainer and the overflow screen.

This warranty will be null and void if:

- The tank is not installed in accordance with the company's installation procedures.
- The tank has been subjected to any form of misuse or any form of wilful or accidental damage
- The tank has been used for any other means than the collection of rainwater.



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