



**spelstormwater**

**Operations & Maintenance**

# **Spel Tankstor<sup>®</sup>**

**Underground Water Storage**



[spel.com.au](http://spel.com.au)

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# INTRODUCTION

Congratulations on your purchase of a SPEL TANKSTOR. With proper care and by following a few simple guidelines your system will give you many years of dependable service.

# IMPORTANT

Only qualified personnel should install, operate and repair your TANKSTOR. Before installation local authorities must be consulted for all applicable codes and regulations.

# SAFETY PRECAUTIONS

1. Ensure installer is aware of “Confined Spaces” guidelines.
2. Make sure that there is sufficient oxygen and that there are no poisonous gases present.
3. Check the explosion risk before welding or using electric hand tools.
4. Do not ignore health hazards. Observe strict cleanliness.
5. Ensure that the lifting equipment (where required) is in good condition.
6. Keep a first aid kit handy.

# PROCEDURE FOR INSTALLATION

See “Typical Installation” – Page 3

1. The excavation for the tank should be no greater than 250mm to 300mm oversize to tank diameter, with due regard to the amount of concrete or backfill to be used under and around the tank.
2. It is suggested that the base of the tank be drained, especially in water charged ground, before, during and until concrete encasement has set, to hold the tank securely in the ground.
3. Lay a minimum of 100mm of 20mpa concrete slurry in base of excavation.
4. Lower tank into excavation while concrete is still a slurry. Ensure no rocks or sharp objects fall into the excavation as damage to the tank wall and base could occur.
5. Where locking holes are provided in the base of the tank, fit reo bar so it penetrates the concrete slurry to stop the tank base moving.
6. Level and adjust tank to suit installation conditions.
7. Fill tank water up to the first rib or at least 300mm – 400mm depth.
8. Secure tank with stabilising bars or timbers to hold in place before encasing with concrete.
9. The tanks are provided with a collar approximately 300mm from the base. The purpose of this collar is to create a bond between the tank and the backfill material to withstand the upward forces when the tank is empty.
10. Check local council and other authorities requirements concerning levels. Ensure you have relevant inspectors approval before backfilling commences.
11. Whilst site conditions will determine the amount of concrete encasement, you should refer to engineers instructions for each individual site.
12. Backfill material must not exceed 100mm to underside of lid when fitted with gatic type concrete in-fill lid.
13. When backfilling use sand or soil only. At all times be careful that rocky or sharp objects are not used. Avoid use of heavy soils that do not consolidate.
14. All pipe connections to tank must be sealed to stop water and dirt ingress.

# AFTER INSTALLATION

1. Ensure that the tank is protected from accidental contact by motor vehicles, construction or farm equipment or wandering livestock.
2. Where there is danger of stock being able to walk on the lid, the tank must be fenced to prevent the risk of the lid being pierced or injury to livestock. Alternatively, a specially constructed lid able to withstand the required traffic can be supplied, it is preferable for this to be specified prior to installation.

# MAINTENANCE

## INSPECTION AND CLEANING

The regularity of inspections of the SPEL TANKSTOR is contingent on the features and properties of the catchment area.

SPEL recommends an inspections of the SPEL TANKSTOR at the end of the first month after installation to determine the volume of trapped silt and pollutants.

Information sourced can be useful in factoring the frequency of on-going inspections or cleaning operations.

In the event of excessive rain or an oil spill, an inspection is recommended immediately upon such an event.

Ascertain silt depth and if build-up is evident, then a vacuum-loader truck should be engaged for the cleaning of the tank.

SPEL TANKSTOR cleaning procedure is simple, by simply lifting the external lid (two persons may be required), resting it securely in a safe manner and then inserting suction hose into the chamber.

**Ensure that the chamber is thoroughly cleaned of all refuse and debris before accessing the chamber - if required.**

The chamber is cleaned by inserting the suction hose through the manhole at ground level.

Always commence cleaning from the inlet side of the chamber and ensure on completion of the cleaning operation that the lid is secured to its normal position (and locked if necessary) before departing the site.

## IMPORTANT

In the unlikely event of the chamber having to be entered ensure absolutely that all Workplace Health and Safety directives and Confined Space Regulations are strictly adhered to, including wearing long-arm rubber gloves and the appropriate footwear in the event of coming into contact with sharp objects.

## CAUTION: ALWAYS BE AWARE OF SYRINGES AND NEEDLES

# WARRANTY

The SPEL TANKSTOR manufactured by SPEL Stormwater PTY LTD are guaranteed to be free from defects in material or workmanship for one year from the date of shipment from factory in Silverwater NSW.

No claim will be recognised for any alleged defects in tanks that may have been apparent prior to installation, whether due to faults in manufacture or faults caused by transports handling.

The obligation of this warranty, statutory or otherwise, is limited to replacement or repair at Parramatta factory or at a point designated by **SPEL Stormwater**, of such part as shall appear to us, upon inspection at such point, to have been defective in material or workmanship.

This warranty does not obligate **SPEL Stormwater** to bear the cost of labour or transportation charges in connection with replacement or repair of defective parts; not shall it apply to a tank upon which repairs or alterations have been made unless authorised by **SPEL Stormwater** in writing.

No express, implied or statutory warranty, other than herein set forth is made or authorised to be made by **SPEL Stormwater**.

In no event shall **SPEL Stormwater** be liable for consequential damages or contingent liabilities arising out of the failure of any **SPEL TANKSTORE** or parts thereof to operate properly.

**SPEL Stormwater** is not responsible for losses, injury or death resulting from a failure to observe safety precautions set out herein, or misuse or abuse of pumps or related equipment.

A properly completed Warranty Registration form must be on file at the **SPEL Stormwater** office in order to activate your warranty.

If you have a claim under the provisions of the warranty, contact your local SPEL distributor.

When contacting your representative for service, please forward the following details.

Please fill in and keep this information and return enclosed warranty card.

Invoice No.: \_\_\_\_\_ Client's name: \_\_\_\_\_

Tank Model No.: \_\_\_\_\_ Job No.: \_\_\_\_\_

Installed by: \_\_\_\_\_ Date: \_\_\_\_\_

# Warranty

## SPEL Underground Tank Shells

We warrant that our Separator and storage underground tank shells, if installed strictly in accordance with the company's relevant installation procedure - having in mind particularly:- ground conditions, invert depth, water table depth in winter, external loading, type and quality of backfill material, will

1. meet our published specifications and will be free from material defects in materials and workmanship for a period of one year following date of original delivery.
2. not fail for a period of twenty-five years from date of original purchase due to external corrosion; and
3. not fail for a period of twenty-five years from date of original purchase due to internal corrosion provided the tank is solely used for:-

Rainwater storage  
Potable water at ambient temperatures  
Fuel/oil contaminated surface rainwater  
Domestic sewage.

For other applications the life expectancy will be determined by the contents, the operating conditions and the resin system/reinforcement specification used.

Our liability under this warranty shall be limited to, at our option,

- (1) repair of the defective tank
- (2) delivery of a replacement tank to the original site or
- (3) refund of the original purchase price.

We shall not be liable for any labour or other installation costs, indirect or consequential loss, damage or other damages in connection with such tanks.

Accessory warranties do not extend beyond the warranty period by our suppliers. This applies to such items as access covers and frames, monitoring equipment, connections for emptying, pumping equipment or any accessories as defined in the company's official order acknowledgement/invoice.

The foregoing constitutes our exclusive obligation and we make no express or implied warranties, or any warranty of merchantability or fitness for any particular purpose whatsoever, except as stated above.



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