

Amrutam

Underground Water Tanks

... A hygienic way of water storage

The Supreme Industries Ltd. is an acknowledged leader of India's plastic industry. It is credited with pioneering several path breaking products and has gained a valuable experience in providing innovative and cost effective piping solutions. The Company has been a trend setter and a torch bearer in the transition from conventional to advanced plastic piping products in the country. The Company's objective is to meet the growing needs of its clientele in water and waste management and in infrastructure sector through a specially designed high performance range of piping products. The innovative product portfolio offered by Supreme is extensive in nature and applications. With its range of over 7500 products, the most comprehensive in the piping industry, Supreme caters to almost every conceivable need and application in piping.

Having successfully introduced many innovative piping products for different application segments including overhead water tanks, we are now proud to introduce yet another innovative, highly useful and a superior product from the Supreme, the underground water tanks under the brand name, **Amrutam**. These ready to use plastic tanks offer multiple advantages over conventional concrete and masonry tanks and are intended to replace the same. Conventional tanks are normally prone to cracks, seepage and root penetration etc. Besides cumbersome and time consuming construction and need for repeated maintenance, the life span of these concrete tanks is short and uncertain. On the other hand, Supreme Amrutam underground water tanks are beyond these problems and offer some great additional features.



Unique Features

- **Rotationally moulded**
- **Unique single piece patented design**
- **Great strength** – robust in design with a unique rib structure
- **Simple and quick installation**
- **Provided with air tight threaded cover**
- **100% watertight**
- **Hygienic and safe** - free from root penetration, corrosion and biological growth
- **Minimum space requirement**
- **Minimal maintenance**
- **Long life** - minimum 50 years of service life
- **Eco-friendly**

Available Range

We offer underground water tanks in different capacities ranging from 1000 ltrs to 30,000 ltrs. The tanks up to 3000 ltrs are available in a vertical design whereas tanks with capacity of 6000 ltrs and above have modular horizontal design. These horizontal modular units can be connected with each other for an increased capacity up to 30,000 ltrs.

Product Details of Vertical Design

Capacity (Liters)	Diameter (m)	Height (m)
1000	1.2	1.321
1500	1.2	1.692
1800	1.2	2.052
2000	1.7	1.301
3000	1.7	1.748

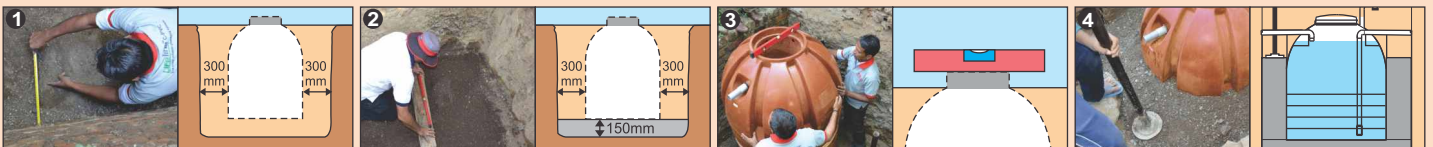
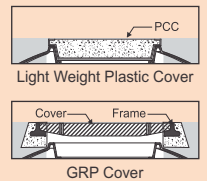
All the tanks are supplied with threaded lids. In case of modular tanks they are supplied with connecting pipes and rubber seals for connection of adjoining modular units.

Product Details of Modular Design

Capacity (Liters)	Combinations	Length (m)	Diameter/Height (m)
6000	Stand alone	2.4	2.2
10000	2 domed ends coupled	3.8	2.2
14000	2 domed ends + 1 Intermediate section	5.2	2.2
18000	2 domed ends + 2 Intermediate sections	6.6	2.2
22000	2 domed ends + 3 Intermediate sections	8.0	2.2
26000	2 domed ends + 4 Intermediate sections	9.4	2.2
30000	2 domed ends + 5 Intermediate sections	10.8	2.2

Installation Procedure

- Excavate a pit approximately 600 mm larger than the diameter of the tank.
- Prepare a 150mm(6") thick bed of granular material and compact it properly. Ensure that the base of the pit is smooth, flat and sufficiently hard to form a solid foundation for the tank and no sharp object/stone etc. is protruding which could puncture the tank.
- Lower the tank into position in the pit ensuring that it is vertical, centrally positioned, correctly aligned and levelled using a spirit level.
- Fill the tank with tap water up to 1/3rd of its capacity before starting backfilling. Backfilling and water filling should be carried out simultaneously ensuring that the backfilling level never exceeds the rising level of water within the tank until the water reaches the maximum level. The width of the backfilling should be minimum 300mm(12") around the tank. Only selected inert granular material, that is, sand/stone dust/gravels (max size 10 mm) should be used as backfill material and should be placed in 250mm layers and compacted to 90% Proctor density. It is particularly important to note that excavated material consisting of rock, peat or clay is not used as backfill material.
- When the level of the backfill reaches the underside of the inlet pipe invert, inlet and outlet connections should be made.
- Select the appropriate cover as per the site loading conditions and place it on the top of the tank. In case of pedestrian movement where vehicles are not expected, plastic light weight cover is recommended. This plastic cover should be filled with concrete after placing it on the tank. For vehicular traffic, GRP cover of appropriate load class is recommended. For GRP covers, 150mm thick PCC (min M150 grade) beneath the cover frame for full width of tank is recommended.
- In case of modular tanks, a firm and a stable base or a flat cast-in-situ 150mm thick concrete slab is necessary. It will facilitate the assembly of the modular tank on a flat surface and will 'bridge' the soil. It will also help distribute the weight of the full tank like a raft.



Note: Where abnormal soil conditions occur such as vehicular traffic, rock, black cotton soil or high water table is anticipated or when the backfill above the lid exceeds 1000 mm, detailed guidelines should be referred to and the final design rests with the engineer or architect of the project.

The Supreme Industries Ltd., (Plastic Piping Division) 1161/1162, Solitair Corporate Park, Building No. 11,167, Andheri Ghatkopar Link Road, Andheri (East) Mumbai - 400 093. India Tel: 91-22-6771 0000, 4043 0000 Fax: 6771 0099 / 4043 0099. • E-mail pvc-pipes@supreme.co.in • Website www.supreme.co.in

Overseas Office : Sharjah, U.A.E. Tel # + 971 6 557 4484; Fax # + 97165574485