



Flextank EPDM



Flextank, flexible tanks

Flextank is a range of flexible tanks for surface water storage that eliminates the need for drilling, excavation, movement, soil compaction, and building permits. It also enables the quick and easy installation of water reserves in hard-to-access places or remote locations. **Flextank** is an effective tool at the service of new water-related awareness, ideal for everyone who values water as a crucial, scarce and irreplaceable resource. The technical properties of the EPDM rubber sheets we use to make our tanks have been endorsed all over the world, with total satisfaction, during more than 30 years of civil and hydraulic engineering works, in waterproofing projects and creating large water reservoirs – offering exceptional outdoor service life expectancies even in high mountain areas, where considerable temperature changes occur over short periods of time. The elastic properties of EPDM sheets assist the bendability and transport of **Flextank** tanks on many occasions without damaging their folds or joints. Each unit undergoes an air test to assure its watertightness.



Uses

Livestock

Water storage for feeding livestock, cleaning facilities or vehicles.

Collection and storage of slurry, minimizing odors and the risk of containing them in the open air. Biodigesters of methane gas.

Irrigation

Collection and utilization of rainwater via roof or porch. Water storage for agricultural use. Public or private garden watering.

Forestry

Strategic forest enclaves of accessible surface tanks as a water reserve in case of fires, saving trip times and reducing movement.

Industry

Rainwater collection from your own roofs for later use. Temporary or auxiliary tanks for industrial processes without additional building works. Easy transport and empty access in mining operations or other hard-to-access activities.

Building Works

As a support during construction. Permanent or temporary ballast. Load tests. Recovery and re-use of water during watertightness tests.

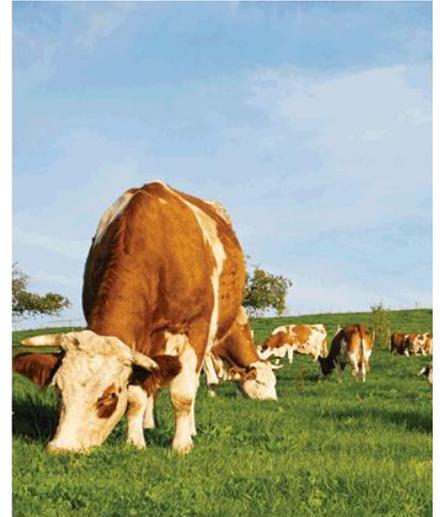
Strategy

Easy installation in hard-to-access places where constructing ponds or tanks is not viable. Humanitarian projects. Settlements for displaced populations due to natural disasters or geopolitical conflicts. Military settlements in remote areas.

Temporary emptying of pools or ponds for repairs or maintenance. Tanks for storm water regulation.

Logistics

Transport of liquids in your own vehicles. The possibilities of custom-made tanks allow us to adapt to your vehicle's measurements. 20- or 40-foot maritime containers, providing maximum safety for the content due to the reliability of our Flextank joints. The quality of the EPDM sheet allows for its reapplication in multiple uses.



Furniture

Flextank tanks can serve as design elements on residential roofs, exploring different shapes and volumes. Allow for sitting and supporting oneself against them, encouraging the use of roofs as leisure areas and, in work centers, as spaces devoted to reflection and stress-reduction.

Miscellaneous

Urban gardens, cisterns for camping, RV trips or sailing.

In the event of storing chemical products or oils, contact the technical department.



Benefits

Exceptional service life

The makeup of the EPDM sheet with saturated molecular bonds avoids migration within its composition, providing for excellent behavior outdoors (ultraviolet exposure, ozone, etc.) and protection from attacks by microorganisms. This material is recognized for its prolonged experience in hydraulic engineering works used for over 25 years of outdoor exposure.

Sustainability

EPDM is an inert material that has no impact on the environment, as it doesn't undergo migrations in its makeup. Its composition is completely free of chlorine. The EPDM sheet is recyclable.

Transportable

EPDM's elasticity and deformability allows the tank to be folded without causing weak spots. This characteristic simplifies logistics by allowing for the transport of large storage quantities in very little space once folded and palletized.

No building works

Flextank eliminates the need for drilling, excavation and/or soil movement, soil compaction, and building permits. All you need is a perfectly flat and level surface, clear of sharp or pointy elements; then you spread out your Flextank and you're ready to go! They are ideal for facilities in mountainous areas, other hard-to-access places not easily accessed by machinery, or places with highly reduced accessibility (cisterns, basements, storage cellars, mines, etc.)



Bendable

The properties of the EPDM sheet allow for folds and creases without damaging its internal structure, permitting the repetition of these actions without causing weak spots.

Flexible and elastic

The EPDM sheet allows for up to 300% stretching before breaking, which also means that your Flextank can substantially increase in size. The capacities stated by the manufacturer must always be respected.

Reusable

Flextank tanks may be temporarily used, stored, and re-used throughout their service life cycle.

No bad odors

The tank noticeably reduces unpleasant odors when storing liquid. In addition, Flextank couplings have stoppers. Reduces attraction for mosquitos and insects.

Safety

No risk of falling for people or animals. Even so, we recommend fencing off access to any kind of tank.

No evaporation losses

Evaporation losses cause a decrease of resources. Flextank reduces these losses to a minimum.

Range and accessories



Range

Tubular tanks



Capacity	Measurement m²	Unladen weight	Height
<i>3.000 liters</i>	<i>1,5 x 3 m.</i>	<i>4,5 m² 14,5 kg.</i>	<i>47 cm.</i>
<i>6.000 liters</i>	<i>1,5 x 6 m.</i>	<i>9 m² 30 kg.</i>	<i>47 cm.</i>
<i>9.000 liters</i>	<i>1,5 x 9 m.</i>	<i>13,5 m² 43,5 kg.</i>	<i>47 cm.</i>
<i>15.000 liters</i>	<i>1,5 x 15 m.</i>	<i>22,5 m² 70,5 kg.</i>	<i>47 cm.</i>
<i>30.000 liters</i>	<i>1,5 x 30 m.</i>	<i>45 m² 138 kg.</i>	<i>47 cm.</i>



Square tanks

Capacity	Measurement m ²	Unladen weight	Height
60 liters	0,75 x 0,75 m.	0,56 m ² 1,3 kg.	30 cm.
800 liters	1,5 x 1,5 m.	2,25 m ² 7,75 kg.	40 cm.
1.000 liters	2,5 x 1,5 m.	3,75 m ² 14,25 kg.	45 cm.
2.000 liters	3 x 1,85 m.	5,55 m ² 19,65 kg.	45 cm.
4.000 liters	2,5 x 3 m.	7,5 m ² 25,5 kg.	60 cm.
5.000 liters	3,4 x 3 m.	10,2 m ² 33,6 kg.	75 cm.
8.000 liters	4,8 x 3 m.	14,4 m ² 46,2 kg.	75 cm.
10.000 liters	5,7 x 3 m.	17,1 m ² 54,3kg.	75 cm.
15.000 liters	4,8 x 4,5 m.	21,6 m ² 67,8 kg.	75 cm.
20.000 liters	6 x 4,5 m.	27 m ² 84 kg.	75 cm.
25.000 liters	7 x 4,5 m.	31,5 m ² 97,5 kg.	75 cm.
30.000 liters	6 x 4,5 m.	36 m ² 111 kg.	75 cm.
35.000 liters	6,80 x 6 m.	40,8 m ² 125,4 kg.	75 cm.
40.000 liters	7,6 x 6 m.	45,6 m ² 139,8 kg.	75 cm.
50.000 liters	9 x 6 m.	54 m ² 165 kg.	75 cm.
60.000 liters	10 x 6 m.	60 m ² 183 kg.	75 cm.
70.000 liters	9 x 7,5 m.	67,5 m ² 205,5 kg.	75 cm.
80.000 liters	10 x 7,5 m.	75 m ² 228 kg.	75 cm.
90.000 liters	11 x 7,5 m.	82,5 m ² 250,5 kg.	75 cm.
100.000 liters	10,5 x 9 m.	94,5 m ² 286,5 kg.	75 cm.

Accessories

The accessories that compose the flexible EPDM Flextanks have been hydrostatically tested and their manufacturing employs the most modern GFPP injection systems. The 2" valve with EPDM gasket between flanges and female threaded GAS outlet is prepared to receive Guillement or Tank-type connections (these are extra accessories). It is reinforced with 20% borosilicate fiberglass, providing incomparable mechanical resistance in temperatures up to 100°C. Its resistance to ultraviolet light is strengthened by carbon-black pigment and by the addition of synthetic UV stabilizers. The compact 2" Flextank valve is heat-treated after its casting and subsequent mechanization to ensure dimensional stabilization, thus providing the tank with greater watertightness.



1/2" valve

Watertight connection via GFPP (glass fiber-reinforced polypropylene) accessory, washers with o-rings and double-gasket ball valve with female 1/2" GAS thread (DN15) with EPDM gaskets and PTFE seats (Teflon). Cream-colored.



1" valve

Watertight connection via GFPP (glass fiber-reinforced polypropylene) accessory, washers with o-rings and double-gasket ball valve with female 1" GAS thread (DN25) with EPDM gaskets and PTFE seats (Teflon). Cream-colored.



2" valve

Connection via flange and counterflange with stainless steel screws. Compact 2-way valve in GFPP (glass fiber-reinforced polypropylene) with 2" female threaded GAS outlet (DN50), PTFE seats (Teflon), and EPDM gaskets.

Includes accessories for connections:

Cabloc–Guillemin – Output extension to 2 1/2" in PVC



Aerators

Watertight connection via GFPP (glass fiber-reinforced polypropylene) accessory, male thread according to the model, washers with o-rings and cap with small chain.

1/2" Aerator

1/2" male thread (DN15)

1" Aerator

1" male thread (DN25)

2" Aerator

2" male thread (DN50)

Tests and packaging



Tests and packaging

Once manufactured, the tanks are air-tested in order to verify their watertightness. Each tank is packaged according to its respective size, creating a compact package with final protection in laminated raffia inside: a cardboard box, cardboard cylinders, or palletized cardboard trunks for large tanks. Instructions/set-up sketches are included for each Flextank.



Subjecting a tank to a pressure test (air-test).

Installation:

The base where the tank will be located must be completely flat at floor-level, cleared of sharp or pointy elements and stable against the tank's maximum load.

We recommend that the tank's installation area be conveniently compacted and have a contact surface of a 5-10 cm sand layer, pressed down firmly, and/or a geotextile of no less than 300 g/m² or with weight and CBR no less than 1200N. In any case, this protection must be proportional to the state of the base and the load to be supported.

The support base must be set up according to the tank's measurement once it has been spread out, empty, plus an extra meter on each side. Any irregularity in the installation surface may cause an imbalance in the liquid; this may, in turn, subject the tank's walls or valves to excess force. Substantial irregularities may cause the tank to shift.

In order to store liquids that could damage the terrain, we recommend that you form compacted slopes or put up a waterproofed retaining wall, conveniently equipped with customized EPDM 1.5 mm units, and install the flexible tank on the inner side.

It is advisable to ballast the Flextank, once it has been spread out, adding a sheet of water to prevent the wind from moving it. Flextank includes rings on its four corners that help affix the tank to the ground without tension if/when empty.