

# PLASTIC TANKS

FULL OF SOLUTIONS : OFFER

# Competences of our team

We are a leader in consulting and production of thermoplastic tanks. The key area of our activities is the design support, manufacture and installation of chemical resistant tanks and water tanks in any space, regardless of its parameters and the complexity of the entire process.

In addition to tanks, we build complete industrial installations – transfer, dosing, mixing (single and double-wall pipes with detection system) and gas pipelines – transport of vapors/gases to cleaning installations. In addition, we make equipment for filling and emptying transport tanks – stations with TDT (Transport Technical Supervision) acceptance.



Modern machinery stock equipped with reliable equipment from European manufacturers



Authorisations of the Office of Technical Inspection (UDT) for the manufacture, modernisation and repair tanks



Meeting stringent standards and regulations (DVS 2205 and the precise provisions of Amargo company standard)



Tested, certified and approved materials and products made of thermoplastics



Cooperation with design offices (design, selection of appropriate capacity, dimensions and technology for the tank)



Own laboratory, R&D department and investments in new technologies

## As part of the investment project, we provide:

- support at the project development stage,
- best solution selection,
- manufacturing of tank and system components,
- delivery and installation at the facility,
- equipping with necessary fittings,
- tank servicing,
- comprehensive legal and documentation services.

**We carry out tasks for many industrial sectors (directly or in cooperation with design offices):** heavy industry, power industry (CHP), pharmaceutical industry, petrochemical industry, chemical industry, paint and varnish industry, food industry (including breweries, beverage producers), pulp and paper industry, textile industry, metallurgy, tyre industry, water treatment plants, water supply companies and sewage treatment plants.

**In addition to industry, we manufacture tanks designed for public facilities:** health care facilities (hospitals, hospices, care and treatment facilities, rehabilitation centres, spas, sanatoriums), hotels, guesthouses, schools, multi-family buildings (blocks of flats, high-rise buildings, tenement houses) or religious buildings.

# Amargo Tanks



## Surface chemical resistant tanks

**Chemical resistant storage tanks** for chemicals, subject to UDT inspection

**Chemical resistant process tanks** used for product processing within production lines

**Chemical resistant tanks for other applications** (tanks in this group are not subject to UDT)



## Internal water tanks

**Built-in fire tanks** for storing water for fire fighting purposes

**Modular reserve/potable water tanks** designed for medical institutions and office buildings

**Retention tanks for rainwater** with large capacity, built inside buildings



## Underground tanks

**Underground storage tanks** for liquid and corrosive substances

**Underground tanks for the retention** of rainwater, process water, fire water, drinking water, etc.

**Underground technical chambers and enclosures** for pumping stations, separators and equipment

## Materials and key features of the tanks

Plastics: PE100, PE100 RC, PP-H, PP-C, PVC, PVC-U, PVC-C, PVDF, E-CTFE, PFA, as well as GRP/TWS/FRP resins – polyester and vinyl ester composite structures and hybrid composite structures: chemical resistant liner and glass composite structural wall



Certified plastics with high chemical resistance, approved by the National Institute of Hygiene

MultiPower sandwich panels made of PP-COPO or HDPE (two solid panels bonded in honeycomb pattern) and Polystone CubX PP-H, which are reinforced with transverse stiffening ribs in two spacing variants: 50/50 mm or 50/100 mm



Sealed, airtight tank construction, corrosion and UV resistant

Double-walled PE-HD/PP winding tube with internal diameter from 1000 to 4000 mm, with cross-section, stiffness of SN2/SN4/SN8 or other as per design (underground or partially buried foundation) and temperature resistance from -30°C to +60°C



Additional protection of chemically resistant tanks against leakage of corrosive substances



Modular tanks can be erected in hard-to-reach locations with short plant shutdown times



MultiPower panel tanks do not require interference with the building structure



Equipping tanks with necessary tank construction elements, fittings and accompanying installations

# In the interest of safety



## Spillage containers for tanks or machines

Spillage containers, made of PE or PP with high resistance to aggressive chemicals, protect production halls, floors and drains from uncontrolled leakage of hazardous materials. Spillage containers are placed e.g., under tanks or plant components to catch escaping liquid in case of leakage due to e.g., mechanical impact leakage. We manufacture each spillage container in a suitably selected capacity, meeting all parameters arising from current regulations and standards.



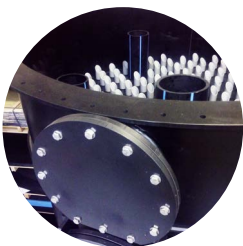
## Chemical resistant linings

PE High Density UV (PE-HD, HDPE) plastic liners play the role of chemical resistance insulation of tank structural material, such as reinforced concrete, steel, etc., which have been depleted or severely corroded and cause leakage. In addition to plastic inserts, we use the technology of fluoropolymer panels (PVDF, E-CTFE, PFA, PTFE laminated panels glued under vacuum to the steel tank).



## Trays for rail tank cars

Our proposed polyethylene or polypropylene drip trays with high chemical resistance and durability protect the area where the loading/unloading of chemicals from rail tank cars is located. We can freely shape and adjust the drip tray, even for very demanding unloading stations and large areas.



## Gas and odour treatment plant housings

We manufacture gas and odour neutralisation equipment, as well as reliable air cleaning systems. We use carefully selected plastics for their production, which ensures their failure-free operation. Polyethylene and polypropylene used for chemical resistant housing of air cleaning equipment and installations are characterised by resistance to corrosive chemicals, corrosion and UV rays. The low weight of the panel panels allows virtually unlimited filter designs.

# TAED Tank Education Academy



Knowledge zone for designers of chemical-resistant and sanitary installations



Free consultation regarding plastic tanks



Training for institutions, designers and industry



A podcast based on our experiences

# We overcome the challenges our clients face

For our clients, we are a partner providing much more than just top quality tanks. Amargo solutions can be used in almost any industry, meeting even the most stringent requirements. The high quality of the semi-finished plastic products allows the tanks to be operated safely and reliably for many years in a sustainable manner.

## Our completed projects

Double wall tank approved by the Office of Technical Inspection with a capacity of 30 m<sup>3</sup> for the storage of concentrated caustic soda NaOH, along with a protection tank and transfer pipelines

Storage tanks for concentrated hot caustic soda NaOH with capacities of 50 m<sup>3</sup> each for a producer from the coking industry

Insulated non-pressure plastic tank for the modernisation of a sulfuric acid and polymer dosing system in the refinery industry

Non-pressure double wall tank approved by the Office of Technical Inspection for 25% ammonia water with exhaust gas treatment system to reduce gas emissions

Plastic process tanks with a capacity of 19.5 m<sup>3</sup> each for liquid circulation nodes at a fertiliser production division

Double wall storage tanks approved by the Office of Technical Inspection for concentrated hydrochloric acid HCl with a capacity of 15 m<sup>3</sup> + UNO + dosing + automation

Set of process mixing tanks (conical bottom) with agitator for the production and packaging of household chemicals

Indoor retention tank made of MultiPower modular panels with a working capacity of 15.5 m<sup>3</sup> for rainwater storage in an office building

Disassembly and assembly of 300 m<sup>3</sup> raw water tanks and a 450 m<sup>3</sup> demineralised water tank for a company in the power industry

A system of four indoor storage tanks for potable water to provide a 12-hour reserve for a hospital facility

Built-in modular water reserve storage tanks of 21 m<sup>3</sup> each for production and cleaning purposes with a pumping system

Cellular panel tank with a capacity of 22.4 m<sup>3</sup> as a water source for a permanent high-pressure water mist firefighting device in a theatre

Delivery and installation of a 6 m<sup>3</sup> water tank for fire-fighting purposes for a mountain shelter together with two submersible pumps

External tanks made of PE100 plastic, 24 m<sup>3</sup> each, designed for storing Clarian de-icing fluid for aviation infrastructure

Renovation of a corroded steel tank at a wastewater treatment plant using a PEHD chemical resistant liner

Removal of a leak in a hypochlorite tank due to damage to the gasket of the tank's medium drain port, which caused leaks

# Amargo, or Tank Think Tank

*We are forming a team of experts (or think tank) on plastic tanks. We provide complete solutions, thought out from the very beginning of the project and implemented at the highest level. We confidently step in where the challenge is just too much for others.*



## Contact details

AMARGO spółka z ograniczoną odpowiedzialnością  
spółka komandytowa  
Jaśminowa 16 Street, Koprki  
05-850 Ożarów Mazowiecki, Poland

NIP (tax ID): 1182029374  
REGON: 142379794

✉ [eksperci@amargo.pl](mailto:eksperci@amargo.pl)

☎ +48 22 758 88 27

🌐 [www.amargo.pl/en](http://www.amargo.pl/en)

📘 [www.facebook.com/amargotank](https://www.facebook.com/amargotank)

🌐 [www.linkedin.com/company/zbiorniki-amargo](https://www.linkedin.com/company/zbiorniki-amargo)

