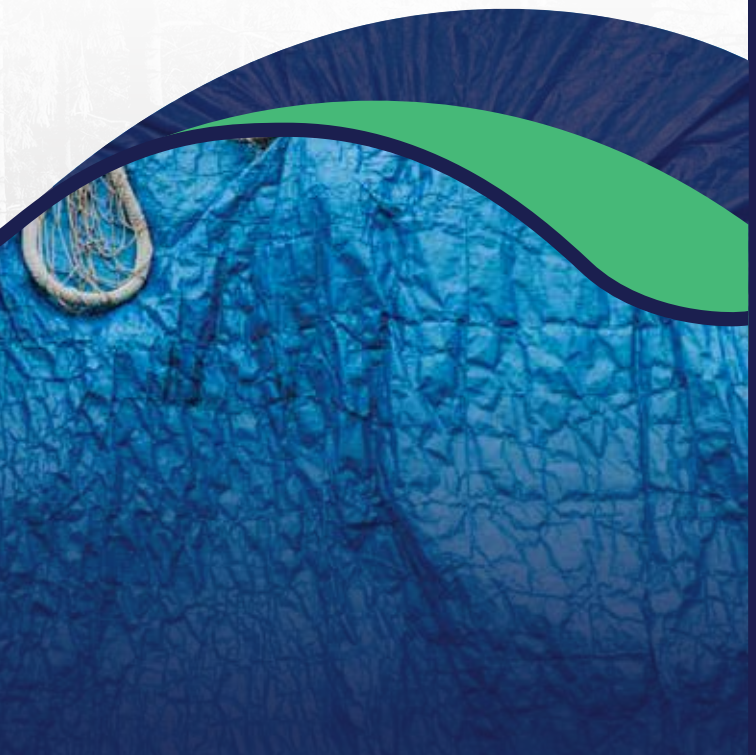
TARPAULIFE

Industrial plant for the **production of eco-friendly tarpaulins** meeting high structural and ecological requirements and providing support to achieve a non-toxic environment in Europe



Context

Tarpaulins are large sheets of strong, flexible, water-resistant material used for protection from extreme conditions. The most common material used to make tarpaulins is PVC-coated polyester, which is characterized by its low price and good resistance. However, PVC is more difficult to recycle than other plastics.

Solution

The TARPAULIFE project aims to demonstrate the possibility of manufacturing polyolefin coated fabrics that can compete in terms of cost with PVC-coated fabrics for large-scale market applications. The main application selected is waterbags, which represent an innovative, eco-friendly way of transporting large amounts of freshwater over the sea.

MAIN OBJECTIVES

Production

A production facility for 2.5-metre-wide polyolefin coated fabrics with a production capacity of 250,000 m2 /year one year after termination of the project.

Prototyping

Manufacture and assembly of two 2,500 m3 waterbags made of the new polyolefin coated fabric, and quantification of the environmental and LCA-LCC benefits compared to the use of PVC-coated fabrics.

Demonstration

The waterbags will be demonstrated as a freshwater reservoir at two sites in Europe: in the North Sea of the coast of Iceland and in the Mediterranean.

Exploitation and Replication

The project results will be exploited and replicated in other sectors, such as eco-friendly truck tarps and glacier tarpaulins.

Dissemination and Communication

The project results will be effectively disseminated and communicated by targeting stakeholders worldwide.

Partners

RINA

Ziplast SRL

SIOEN

GIOVANARDI TEXTILE EXPERIENCE

COVERTARP Sistemi di Copertura

WATERBANK BY NOWA

AIMPLAS PLASTICS TECHNOLOGY CENTRE

Funding

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