

## RECOVERY OF AIR PIPE WITH **STM** BY ITS OUTSIDE.

The **MANSILLAS Thermoplastic System (MTS)** is an interesting technology capable of manufacturing new pieces over existing ones or repair them by creating a continuous sheet that plasticizes the surface to resist, stabilize and increase the useful life of facilities. Solving their common problems of corrosion, abrasion, damage due to impacts, leaks or any other degradation caused by an aggressive environment on concrete, metal, Wood, asphalt, polyester or any other construction material surfaces.



Sample of MTS

### Recovery of biological aeration pipe by its outside.

These are several sections of biological aeration metal pipe that have corrosion and section losses that have caused small leaks where the air that contain the pipe comes out. This pipe is buried, the corrosion caused by ground agents and water filtration have caused these leaks.

With **MANSILLAS Thermoplastic System (MTS)** we have manufactured a new pipe by its outside, using the existing as a mold, stopping the damage caused by the corrosion and eliminating section losses and leaks, returning its functionality and without having to disassemble the facility.

The ideal solution has been the creation a new structure in thermoplastic, manufactured with mobile factory, in situ, without joints with **MTS**. Protecting completely the surface and making a new section of pipe without air losses. The solutions used before have not worked. (paint, epoxy, etc)

Before the manufacture of the pipe with **MTS**, the condition was as follows:



Initial state of the pipe.

The Works have been carried out as follows:

The surface has been cleaning eliminating the corrosion and any other coating that were damage or taked off, and the dirt too. Next, we have applied primer to decontaminate all the surface of the pipe, and finally, we have manufactured a new section pipe completely airtight with **MANSILLAS Thermoplastic System (MTS)**, in situ, with a mobile factory, and the facility has not be dissambled or stopped.



Section pipe after manufacture of **STM**















*With Mansillas Thermoplastic System we have created a new section pipe over existing one with the same dimensions but with higher resistance and durability.*

We can conclude that thanks to the use of **MTS** for the rehabilitation of these facilities, the shortest possible time is used with the best results, because the treat time is minimal and the pipe was operational within a few hours of implementing the **MTS**.

In this way the **MTS** becomes a great ally for the maintenance and protection of concrete, metal or polyester structures in industrial facilities, with the consequent economic savings for the customer avoiding breakdowns, replacement of parts and minimizing downtime.

***Mansillas Thermoplastic System (MTS) features:***

-  Advanced technology for the creation of a new body over the existing support, which provides a perfect barrier or shield against external attacks.
-  Ability to manufacture new parts.
-  Adaptation and specific design of the system for each project.
-  Complete technical Mobility: Implementation of the system in place required by the client, using mobile autonomous factory.
-  Faster implementation of projects: fast uptime 6 to 20 seconds.
-  Indifferent system to moisture and temperature: Not sensitive to high humidity and can be applied to virtually any temperature without complication.
-  Low permeability classification and water vapor transmission.
-  Excellent physical properties: abrasion resistance, tensile, impact, tear, fire, chemical ...
-  Excellent adhesion.
-  Continuous system without joints or cracks: removing accesses fluids, bacteria or other contaminants that enter the support and degrade.
-  Long-term stable system, keeping their original physical properties even with long-term aging and obtaining the durability of the structures.
-  Environmentally friendly.