

## MANUFACTURE OF **STM** INSIDE BURIED PIPE.

The **MANSILLAS THERMOPLASTIC SYSTEM (MTS)** is an interesting technology capable of fabricating new parts over existing ones, or repair by creating a continuous sheet to plasticize the surface to resist, stabilize and increase the life of various facilities, solving common problems of corrosion, abrasion, impact, damage from high impacts, leakage or degradation caused by an aggressive environment on concrete, metal, wood, asphalt, polyester or virtually any building material.



Sample of MTS used for the pipe.

During a technical visit we observed a carbon steel pipe with a lot of corrosion, it has a diameter of 2 meters and a length of 16,40 meters, the big problem with this pipe is that it is under a concrete slab, which makes that its replacement becomes a large-scale work, while using the **MANSILLAS THERMOPLASTIC SYSTEM (MTS)** the problems for the rehabilitation of this pipe are minimized.

The estate in which the pipe is located is the one shown in the images below:



The ideal solution is the rehabilitation of the inside of this pipe with **MANSILLAS THERMOPLASTIC SYSTEM (MTS)** thus slowing down the degradation process that this structure has, by protecting it from the water that circulates inside it by creating a new pipe with **MTS** in a single piece and fully waterproof.

The first step has been to clean the corrosion that this pipe had, to later, apply primer to decontaminate the surface and finally, manufacture the new pipe, continuously without joints and in one piece with our **MANSILLAS THERMOPLASTIC SYSTEM (MTS)**.

The result after manufacturing the **MTS** is the following:



The execution of the works, from the cleaning of the corrosion to the manufacture of the new pipe, lasted approximately three days, with the facilities being operational again in a short time.

***With the Mansillas Thermoplastic System (MTS) we have created a new pipe, with the same dimensions as the old ones, but with greater resistance and durability, also slowing down the degradation of the Steel pipe.***



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We can conclude that, thanks to the use of the **MTS** for the rehabilitation of this piece, the shortest possible time has been used with the best results. No major disruptions have been caused, the rehabilitation time has been minimal and the pipeline was operational immediately after implanting the **MTS**.

In this way, the **MTS** becomes a great ally for the maintenance and protection of metallic, concrete or polyester structures in industrial facilities, with the consequent economic savings for the client, 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 penetrate the support and degrade it.
- Long-term stable system, keeping their original physical properties even with long-term aging and obtaining the durability of the structures.
- Environmentally friendly.