

MANUFACTURE OF CONCRETE PRIMARY SLUDGE THICKENER WITH **MTS**.

MANSILLAS THERMOPLASTIC SYSTEM (MTS) is an interesting technology capable of manufacturing new parts over existing ones or repairing them by creating a continuous sheet that plasticizes the surface to resist, stabilize and increase the useful life of various installations. Solving their common problems of corrosion, abrasion, damage due to heavy impacts, leaks or any degradation caused by an aggressive environment on concrete, metal, wood, asphalt, polyester surfaces or practically any construction material.



Sample of MTS used for the thickener

In this case, we are dealing the rehabilitation of a primary sludge thickener made of concrete, whose overflow channer is damaged, as it could be observed in technical visit, it had cracks and section losses in several áreas, and lot of corrosión in the surface, even some áreas have had to be repaired with mortar before the manufacture of the **MTS**.

Initial state of the primary sludge thickener:





The ideal solution is the creation of a new overflow canal by its inside with ***Mansillas Thermoplastic System (MTS)***, stopping the corrosion process of this facility and protecting the surface, manufacturing a new one, continuous, in one piece, and waterproof.

The manufacturing work of the new channel consisted in cleaning surface in first place, primer application, in the second and ending with the manufacture of this channel, continuous and in one piece with our ***Mansillas Thermoplastic System (MTS)***.

The result after the ***MTS*** manufacture is the next:





The execution of the works, from the cleaning to the manufacture of the new channel, lasted approximately three days, this facility was operative again in a short time.

With Mansillas Thermoplastic System (MTS) we have created a new channel, with the same dimensions than the older, but with higger resistance and durability, stopping also the corrosion of the concrete.



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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 operation time is minimal and the facility 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 saving 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.