

MANUFACTURE OF **MTS** INSIDE TUNNEL CHAMBER.

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 in tunnel chamber.

INSIDE TUNNEL CHAMBER REHABILITATION

During a technical visit, a tunnel chamber was observed, whose interior base presents cracks and poor condition, it has lost its tightness, this chamber works with large thermal changes, with a temperature of 80° and a humidity of 100%, which causes expansions that could have cause these cracks and their deterioration..

The condition of the camera is as shown in the images below:



The ideal solution is the interior rehabilitation of the chamber tunnel, with ***Mansillas Thermoplastic System (MTS)***, thus slowing the degradation process of this structure, by protecting it from the humidity that circulates through its interior by creating a new base with STM in One piece and completely waterproof.

The first step has been to clean the corrosion that the chamber tunnel had, to later apply primer to decontaminate the surface and finally, manufacture the new base, continuously without joints and in a single piece with our ***Mansillas Thermoplastic System (MTS)***.



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



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

With Mansillas Themoplastic System (MTS) we have created a new base, with the same dimensions as the old ones, but with greater resistance and durability, also stopping its degradation.

We can conclude that thanks to the use of **MTS** for the rehabilitaci3n of this piece, the shortest time possible has been spent with the best results. No major disruptions have been caused. Rehabilitation time has been minimal and the tunnel chamber was operational immediately after manufacturing the **MTS**.

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



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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.