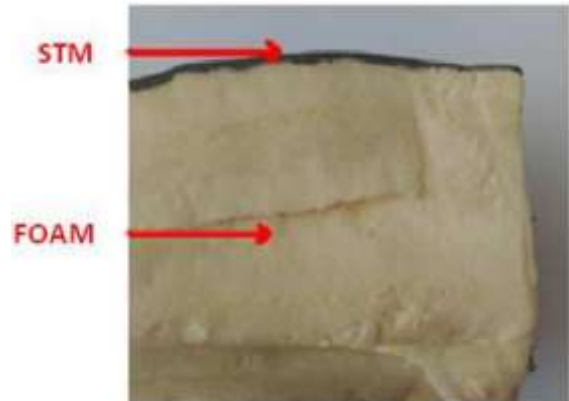


## STAINLESS STEEL TANKS PROTECTION AND INSULATION WITH MTS IN KHORIBGA FACILITY (MOROCCO)

**The Mansillas Thermoplastic System (MTS)** is an interesting new technology capable of manufacture new pieces over existing or repair parts by creating a continuous sheet that plasticize the surface to resist, stabilize and increase the lifespan of various facilities. Solving common problems of corrosion, abrasion, damage from high impacts, leaks or any degradation caused by an aggressive environment on surfaces of concrete, metal, wood, asphalt, polyester or virtually any building material.



Sample of insulating sandwich MTS used in the project

Tanks for storing amide entering in phosphate washing treatment processes require a continuous outer thermal insulation over a continuous protection system resistant to acidic contaminants and environmental corrosion, these two functions (anti corrosion and insulation) are obtained by the **MTS** manufactured on site in the form of sandwich continues in one piece thereby providing a complete solution. As we can see in the image below, the task at hand was to apply a sandwich with **Mansillas Thermoplastic System (MTS)** to protect six metal tanks in the maximum height is 10 m. Such tanks must maintain a temperature of 70 ° C inside without being affected by temperature or the external environment and must be protected against adverse weather conditions to prevent corrosion and abrasion.



Stainless steel storage tanks of amide before action

The ideal solution is to create with the **MTS** a new outer surface by making an encapsulated envelope or a continuous, jointless and seamless sandwich. The aim is the complete protection of the metal and the manufacture of a new coating on the outside of the tank to be protected, maintaining the temperature inside and canceling the continuous process of degradation due to corrosion.



The surfaces of the tanks before and after implementation of the MTS

*With Mansillas Thermoplastic System we create new tanks "sandwich type" outside of the olds with the same dimensions but with better strength and durability.*



Mobile manufacturing unit of MTS

Thanks to **MTS** the tanks protection was carried out as quickly as possible with the best results. Neither the tank or its components did not have to be dismantled; the procedure did not cause any disturbance on the phosphate washing treatment line. There was no need to move the pieces, or to await the stop of factory production. Works time was minimal and tanks were fully operational during the application of the **MTS**.

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

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

- 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 it.
- Long-term stable system, keeping their original physical properties even with long-term aging and obtaining the durability of the structures.
- Environmentally friendly.