

REHABILITATION OF GUTTER WITH **MTS** BY UPPER FACE.

The **Mansillas Thermoplastic System (MTS)** is an interesting technology capable of fabricating new parts of existing 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, leakage or degradation caused by an aggressive environment on concrete, metal, wood, asphalt, polyester or virtually any building material.



STM sample used for the rehabilitation of spouts

1/ GUTTER REHABILITATION.

Gutters had substantial corrosion due to exposure to the weather, the problem was compounded by the loss of section producing leaks into the building (as seen in the initial images before processing) where they were located, water fell over electronic equipment causing damage to them.



Detail spouts corrosion and loss of section that caused leaks.

The ideal solution was the creation of a new surface by upper face, without joints or joints with **MTS** protecting these and completely stopping the process of degradation and corrosion, manufacturing a new plastic gutter with the same dimensions as the existing, eliminating the occurrence of leakage and therefore provides greater resistance.

After cleaning and surface preparation, the actions for the production began with **Mansillas Thermoplastic System (MTS)** new guttering.



Gutters images after implantation of the MTS

Manufacturing execution new guttering, from cleaning up its implementation lasted about a week, because of their limited time curing facilities to be operational again quickly if the company cause serious disorders.

2/ GUTTER REHABILITATION WITH SÁNDWICH PANEL ENCOUNTER.

As in the previous gutter repair work, these were also metallic, they had corrosion and section losses, for this case, in addition to the waterproofing of the gutters, we included the waterproofing of the sándwich panel encounter with these gutters, to make a cover completely watertight, before the Works, large amount of water had entered inside due the damage of gutters.

Initial state of gutters with the sándwich panel:



The previous step to the manufacture of the new gutters with the sándwich panel encounter was the cleaning of the facility, preparing the surface for the primer applications, to finally manufacture the news gutters and the sándwich panel encounter with our **Mansillas Thermoplastic System (MTS)**, creating new continuous gutters and the sándwich panel encounter, avoiding the entrance of water inside.

The result after the manufacturing of the new gutters with the sándwich panel encounter is the next:



The manufacturing of the new gutteres with the sándwich panel encounter, from its cleaning to its manufacture lasted three days approximatey, thanks to the short curing time, one of the many advantages of the **MTS**, this facility was quickly operationan again, stopping the entrance of water inside the building.

3/ GUTTER LINEAR REHABILITATION IN INDUSTRIAL UNIT.

For this new work, the metallic linear gutter had quite severe corrosion as can be seen in the images prior to treatment with our **MTS**. If it had not stopped it, it would have caused the loss of the gutter section, causing water leaks in to the industrial unit.



Previously to the manufacture of the new gutter with **MTS**, the corrosion has been completely eliminated by mechanical tools (as electrical sander/grinder) to then apply the primer and leave the surface ready for the **MTS**.

After cleaning and subsequent application of the primer, a new linear gutter has been manufactured with our **Mansillas Thermoplastic System (MTS)** continuous, in one piece and totally waterproof, also stopping the degradation process caused by the severe corrosion that has the linear gutter.

The result after the manufacture of the linear gutter with **MTS** is the next:



As in the previous cases and due to the short curing time, the new linear gutter was ready in a short period of time after its manufacture, so the **MTS** becomes a great ally for the maintenance and repair of this type of structures.

4/ FIBER CEMENT GUTTER REHABILITATION.

In this case, it is about fiber cement gutters, which, as can be seen during a visit prior to the work, are quite deteriorated, have had a Paint-type coating, with which the exposure to the weather conditions and the passage of time has been raising, exposing the fiber cement, which was also deteriorating, and if not stopped, could cause leaks inside the warehouse, the take advantage of the work to fix the holes in the fiber cement sheet that they have on this roof.



Prior to manufacturing the new fiber cement gutter with **MTS**, all the poorly adhered and detached old coating has been completely removed by mechanical means (with an electric sander/grinder) to then, apply a primer to decontaminate the surface, leaving it ready for the **MTS**.

After cleaning and subsequent application of the primer, a new gutter has been manufactured with our **Mansillas Thermoplastic System (MTS)**, continuous, in one piece and totally waterproof, protecting the fiber cement gutter and also stopping its deterioration.

The result after manufacturing the fiber cement gutter with **MTS** is as follows:















As in the previous cases and due to the short curing time, the new fiber cement gutter was ready in a short period of time after its manufacture, so the **MTS** becomes a great ally for the maintenance and repair of this type of structures

With Mansillas Thermoplastic System (MTS) have created a new guttering/linear gutter on the top of the existing one with the same dimensions but with strength 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 operation time is minimal and the installation was operational within a few hours of manufacturing 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 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.
-  Long-term stable system, keeping their original physical properties even with long-term aging and obtaining the durability of the structures.
-  Environmentally friendly.