
CHIPSEALER
Chipsealer
PRESS RELEAS
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SECMAIR
FAYAT GROUP

REINFORCED INSULATION

When the meeting between data and decarbonisation inspires innovation

A shared commitment to decarbonisation

The path to decarbonization within the Fayat group is the subject of a roadmap established with each of the subsidiaries. Based on the emission reduction actions already in place within the Group, this approach aims to put the Group on a decarbonisation path compatible with the Paris Agreements.

This roadmap allows us to support our clients who are also engaged in similar decarbonization initiatives.

How can we innovate to help our customers in their decarbonation process?

By providing solutions that contribute to their overall decarbonization goal, which for us translates into reducing the CO2eq emissions of our machines.

The first step, essential to achieve the expected performance, was to identify and measure CO2 emissions sources throughout the life cycle of our products.

The results show that more than 75% of our CO2 emissions come from the use of our machines by our customers on their construction sites.

Therefore, the SECMAIR R&D teams have studied the optimization of the operation of our machines to contribute to the reduction of their carbon footprint on site.

Data as a lever for innovation

This is where the exploitation of jobsite data has become a key innovation lever.

For almost 20 years, our machines have been equipped with sensors and computers that collect data essential to understand the use of our machines on road jobsites.

As part of the decarbonation project, we therefore looked at data that could allow us to identify and quantify the various sources of CO2 emissions from our machines.

The first source of emissions was quickly identified since its impact is massive with almost 70% of emissions from the use of our machines.

This source is the fuel burner used to put or maintain the bitumen emulsion at working temperature.

The data showed intense use phases, interspersed with rest phase for a relatively short effective working time during the day.

The main innovation was therefore to find a solution for maintaining the bitumen emulsion at working temperature by limiting the use of the burner

A simple solution, better isolate to limit the use of fuel burners

The solution chosen was to reinforce the insulation of the tank with the constraint, at equal dimensions, not to decrease the capacity, nor to increase the weight of our machines.

The design of this new insulation involves the use of new insulating materials in addition to traditional insulators as well as a design for the identification and treatment of thermal bridges.

The first product in our range to benefit from this innovation was THE BOX, our 100% electric spreayer that combined with an electric carrier allows our customers to lead completely decarbonized tack coat jobsite with zero CO2 emissions.

Based on this experience conducted in 2023, we have declined the option of reinforced insulation on our ranges of spreayers and CHIPSEALER with a reduction of 30% of CO2 emissions per working day.

The option has been available since early summer 2024 with an immediate impact on the carbon trajectory of Secmair and our customers.

The ROI is 3 years.

Supporting our customers towards decarbonized solutions

This work of innovation allows us to offer solutions adapted to our customers in order to reach their decarbonation objectives.

A concrete example: the reinforced insulation option associated with the electric night heater option that allows:
• Limiting temperature drops during the night by using “clean” energy
• Avoid the periods of inactivity related to the «burner» heating time necessary for the emulsion to be back at working temperature, reducing CO2 emissions by 30%.
• Directly quantifiable results and integrable to a carbon balance of the activity thanks to the system of collection of the data EASYTRACK.

With the reinforced insulation of its tanks, SECMAIR offers its customers decarbonation solutions to limit their environmental impact while continuing to create value.

About SECMAIR

Secmair, a Fayat Group Company for almost two decades, is the Euopean leader for developing and manufacturing road maintenance machinery since 1981. Featuring the most complete line of road maintenance equipment, from surface dressing to cold mix asphalt, as well as crack bridging and pothole treatment, SECMAIR is positioned to offer a solution for every road maintenance requirement. SECMAIR one single production site constitutes a unique platform to guarantee state-of-theart product industrialization alongside transversal components, ensuring outstanding reliability and first-class after-sales services.
For more information about Secmair, please visit https://secmair.fayat.com/




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