



# SIKA AT WORK

## REFURBISHMENT OF THE SOUESMES WASTE WATER TREATMENT PLANT, FRANCE

STRUCTURAL STRENGTHENING: Sika CarboDur® Grid

CONCRETE PROTECTION: 745 Lankocote CM 660

CONCRETE REPAIR: 731 Lankorep Structure, 770 Lankorep Fin Rapide

BUILDING TRUST



# STRUCTURAL REINFORCEMENT

When Sika's FRCM solution is proved to be indispensable

## PROJECT DESCRIPTION

This waste water treatment plant, built in 2003, was located in Souesmes 41300 Loir et Cher (France). Its structure needed to be reinforced.

The commune of Souesmes, located in the heart of France south of Orléans, is a commune of just over 1,100 inhabitants. Its territory is made up of approximately 86% woods and forests, it is a "rural" commune.

## PROJECT REQUIREMENTS

The structure of the Souesmes waste water treatment plant built at the beginning of the 2000s quickly revealed cracks, causing leaks through the walls of some of its tanks. Since the purpose of this facility is to treat the commune's waste water, this situation was not allowed to continue.

After analyzing the causes of these cracks, a call for tenders was launched, and then the operation to reinforce the incriminated structure was initiated. The company SEGEC based in La Chatre (Indre, France), founded in 1936, won the contract for the rehabilitation of this sensitive structure.

The expectations of the operator of this waste water treatment plant were very simple: No interruption of the daily operation and treatment of the water before it was released into nature during the period of repair and reinforcement works. Only Parex's FRCM system, according to the technical advice, was able to fulfil this requirement.

## SIKA SOLUTIONS

Sika CarboDur® Grid system was supplied to the refurbishment project. This system is composed of the following Parex products:

- 52 LANKOSTRUCTURE CARBOGRID Colle
- 32 LANKOSTRUCTURE CARBOGRID TRM
- 731 LANKOREP STRUCTURE
- 770 LANKOREP FIN RAPIDE
- 745 LANKOCOTE CM660

\* Parex – a Sika company

Products and systems under the Parex name also exist in the Sika offer under the Sika name.



Pipeline crossing.



Fluid leaks before and during repair.

## WHEN THE FIRST FRCM SYSTEM IN FRANCE TO RECEIVE TECHNICAL APPROVAL COMES TO THE RESCUE OF A STRICKEN WATER CIVIL ENGINEERING STRUCTURE



Work in progress.



Implementation of the system without interrupting the structure.



Crack bridging before reinforcement



Completed work, not a day's interruption.

# THE SOUESMES WASTE WATER TREATMENT PLANT, FRANCE



## PROJECT PARTICIPANTS

Owner: City of Souesmes (Loir et Cher, France)  
Engineer: AXIOME Ingénierie  
Contractor: SEGEC La Chatre (Indre, France)  
Sika organization: Parex France

Our most current General Sales Conditions shall apply. Please consult the most current local Product Data Sheet prior to any use.



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