



SIBELCO

SERVING A GROWING POPULATION

Growing need for sustainable wastewater management

Wastewater volumes as well as wastewater pollution are increasing due to both population growth and economic development. Today 80% of global wastewater is still released into the environment without treatment.

Discharging wastewater into rivers and seas without treatment has severe consequences, not only for aquatic life but also for human health and drinking water supplies. Moreover, in the current context of rising water scarcity and increasing water consumption, treating wastewater to be suitable for reuse can offer a sustainable alternative to traditional water resources and contribute to a circular economy.

Sibelco is dedicated to contributing to meeting these challenges through the provision of a range of quality minerals for enhanced wastewater treatment.





Siaap, Paris
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Sibelco helps you with enhanced wastewater treatment

Our calibrated sands are used as filtration media in tertiary wastewater treatment, for effluent polishing or pre-treatment prior to membrane processes, to reduce suspended solids, BOD and COD. This enhances effluent quality for environmentally safe discharge as well as wastewater reuse purposes. In addition, we offer other sands and minerals depending on your specific needs.

For example, at Siaap, the world's second largest wastewater treatment plant located in the Paris region in France, our microsands are used to facilitate and accelerate the settling process during wastewater treatment.

*Siaap treats the wastewater of **eight million people** in Paris and its surrounding area. In 2017 the plant treated on average over **1,340,000 cubic metres per day** in the dry season, rising to **2,800,000 cubic metres a day** in the rainy months.*

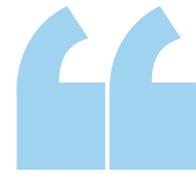
Siaap uses the Actiflo process developed by Veolia OTV, which combines chemical and physical water treatment. Actiflo systems can be operated with 50 times less space while being 100 times faster than conventional precipitation and clarification methods.

Sibelco's microsand is a critical element in the Actiflo process, as it accelerates the settling of the flocs thus tremendously enhancing the performance of the coagulation-flocculation process. The microsand can also be partially recycled, with only a small amount of new sand injected regularly to compensate for any loss during the Actiflo process.

Sibelco's unique and high quality microsands are used because of their optimal performance in this process as well as their low consumption per cubic metre of treated wastewater. The specific shape, silica content, particle size and density all allow the sands to perform in the best way.

Our technical team is dedicated to provide you with the best wastewater filtration solutions and looks forward to working with you to develop products adapted to your specific needs.

Don't hesitate to contact us at environment@sibelco.com



We put our beliefs into practice

Also in our own daily operations Sibelco is confronted with the challenges of wastewater and strives to manage wastewater in the most sustainable, responsible and cost effective manner. We are highly committed to controlling effluent water quality and carefully manage discharges in order to comply with the existing regulations. Furthermore, we conserve and recycle process water and resulting wastewater in several closed loop systems.

