

Run-off water treatment



TREATING SLUDGE

Clérac clay quarry (France)

The minerals industry has a visible impact on natural habitats, local ecosystems, water resources and atmospheric emissions. The sector is - understandably - faced with stringent environmental regulations and growing demands from customers, investors, local communities and other stakeholders. Imerys recognises that, in order to continue to grow in the long term, it must strive to be a sustainable company that respects the environment and addresses the causes and effects of climate change.

To help achieve this, Imerys Clérac has installed water-treating systems in all its quarries.

This water is collected in large lagoons and then pumped into a Geotube, where polymers are added to the sludge before being filtered.

Application parameters

QUANTITY	1 pump D25WL2IEPO
REAGENT ADJUSTMENT	From 0.2% to 2%
FLOCCULATING AGENT	Variable polymer dosing
OPERATING PRESSURE	From 0.3 to 6 Bar



Founded in **1974**,
DOSATRON INTERNATIONAL
has been recognised in **France**
for over **50 years** and has
numerous many references
in the hygiene market dosing.

DOSATRON D25WL2IEPO



GEOTUBE FLOCCULATION AND FILTRATION



Our solution

To treat its run-off water, Imerys called in a Specialist company to design and implement the water treatment process.

The treatment involves recovering the contaminated water from the lagoons, pumping it, flocculating it and then re-injecting it into a **Geotube**, which traps the flocs formed by the clay particles.

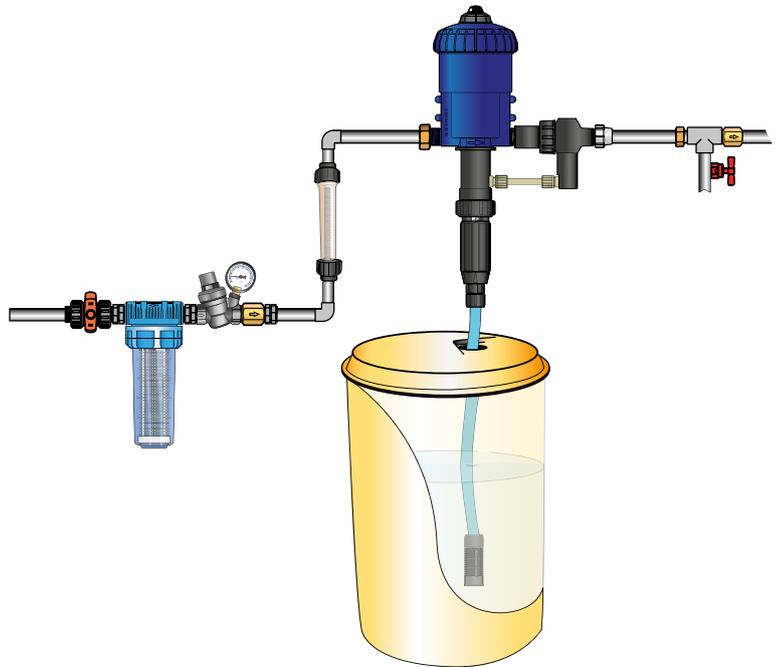
The treated water passes through the Geotube membrane and is collected in a second lagoon, where it is purified before being returned to the natural environment.

In this treatment process, the **Dosatron D25WL2IEPO** dosing pump is used to prepare the diluted polymer solution.

This solution ensures that there is a sufficient amount of diluted polymer available to treat the run-off water.

The DOSATRON proportional dosing pump is installed in the pipeline and uses the water supply as its energy source.

The pressure and water flow drives the motor piston, which is directly connected to the dosing piston.



“ The polymer is **proportionally** dosed and continuously injected with water according to the selected dosing rate ”