



Sludge/quicklime mixer



Sludge screw conveyor



Activated carbon slurry preparation



Reagent feeding and sludge conveying in a drinking water treatment plant

Showcase for SODIMATE expertise and technology



THE CONTEXT

Size: 150,000 m³/day
 Client: Paris Water (SAGEP)
 One of the largest units in Europe using ultrafiltration by membrane.

The specifications of this drinking water production plant, built by OTV, required SODIMATE to bring to bear its experience in the design and installation for the storage, metering and transport of powdered reagents, slurry preparation (water and powdered activated carbon), mixers (sludge and quicklime) and sludge conveyors.

The SODIMATE equipment was installed in July 2007 and commissioned in September 2008.

TECHNICAL SPECIFICATIONS

- 2 sets for sludge liming:
- Discharge and metering of quicklime (Stage 1)
 - Sludge mixing and transport (stage 2)
- Sludge flow rate at centrifuge output 1 m³/hour with dry material content of 20 to 25%
 Liming at 30% of dry material i.e. at a rate of 20 to 100 kg of quicklime/hour
- 2 Lots for activated carbon:
- Discharge and metering of activated carbon
 - Mixing of activated carbon with water
- Slurry preparation of 2 x 4000 litres/hour of activated carbon slurry at a concentration of 20 g/l

THE SODIMATE RESPONSE

- For sludge liming:
- Package 1 (picture 4): 2 sets, each including: 1 silo arch breaker/metering system, 2 conveyors and 1 injector, with 17 m length
 - Package 2 (pictures 1 and 2): 1 set of equipment including: 2 paddle shaft mixers, 2 sludge conveyors, 1 conveyor on motorized pivot
- For activated carbon:
- Package 3 (picture 4): 2 sets, certified ATEX 22, each including: 1 silo arch breaker/metering system, 2 conveyors (one vertical of 4.50 m)
 - Package 4 (picture 3): 2 units, with ATEX 22 certification, each including: 1 wetting unit, 1 x 2000 litre slurry make-up tank with water supply ancillaries

SITE INSTALLATION

Installation in 2 weeks by 4 people with 1 crane
 Commissioning by two people

SODIMATE GUARANTEE

Parts and labour guarantee for 2 years from commissioning.

Since October 2008, SODIMATE has offered users a 4-year maintenance contract. Please contact our Service Department for details

IMPORTANT FACTS AND FIGURES

- More than 25 years of experience
- 2000 sites fitted throughout the world
- 4000 systems installed in France and elsewhere
- The European environmental reference for discharge and feeding of powder products
- A patent for powder silo discharge and metering
- Water Treatment and Flue Gas cleaning area.
- Reagent processing.
- Liming equipment
- Loss in Weight Feeder.