

SETTLING TANKS

TECHNICAL PROBLEMS

Settling tanks are designed to collect industrial wastewater from various sources. There are a great variety of chemicals dissolved in this water, but they are also diluted. However, it is necessary to:

- check that there is no phase separation; any immiscibility may lead to highly concentrated solutions coming into contact with the concrete.

Run-off is generally controlled and chemically treated in these tanks before it is disposed of.

TRADITIONAL SOLUTION

Depending on how corrosive the chemicals in the wastewater are, there is a wide range of different protection solutions for the concrete:

- anti-corrosion paint: short-term protection only (2 years max)
- reinforced polyester systems: difficult to install, a risk of cracking if the substrate moves. Difficult to repair.
- anti-acid bricks: good technical protection against highly corrosive products but requires a seal to be applied under the bricks - and this is less resistant to the chemicals. Additionally, the special cements used for the joints don't generally provide sufficient resistance.
- pouches made from butyl rubber, etc.: if they are torn, there is no longer any protection for the concrete at all.

SOUPLETHANE TECHNIQUE

SOUPLETHANE is applied as a continuous layer with a thickness of 1.5 to 3 mm, according to the nature of the environment. It fulfils several roles:

- Corrosion resistance (for a pH range from 1 to 13)
- Sealant: if the concrete tanks crack, SOUPLETHANE will preserve the seal on the concrete until the cracks reach a width of 2 mm.
- It is easy to repair.



SPECIFICATION

• prepare the substrate:

- concrete sandblasting
- seal the vertical sides of the concrete

• apply SOUPLETHANE

- concrete primer (1 litre per 7m²)
- apply manually with rollers a thick, continuous layer of SOUPLETHANE (or with a twin-component airless pump).

QUALITY CONTROL

- Check the quality of the film (no blisters, holes or pores, well polymerised, etc.).
- Check the porosity with a holiday detector and remedy any defects observed.

TESTS AND CERTIFICATIONS

- STER 81 qualification.
- Chemical resistance: SGN Laboratory, Rhône Poulenc

SEE IT IN ACTION

- PÈCHINEY - Villers St-Paul
- ANDROS
- DEGRÉMONT