

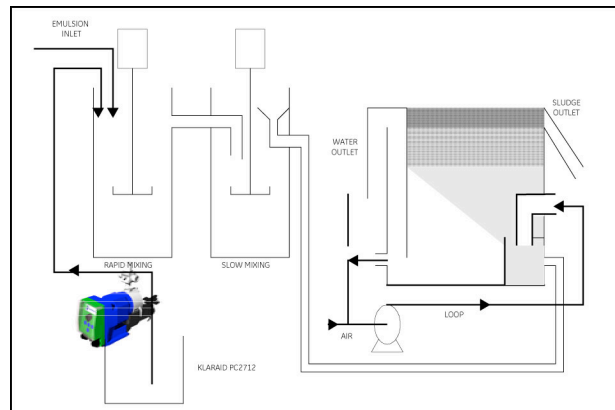
# KlarAid\* starch technology saves chemical and manpower costs in emulsion splitting

## background

A large tyre manufacturing plant in France has to treat an oily waste emulsion. Four products (acid, inorganic and organic compounds) as well as substantial labour were required to split the emulsion. The quality of water and sludge obtained was not as good as required by the customer.

## solution

Following several laboratory studies to select the best treatment approach, KlarAid starch technology was selected. The installation used a continuous process with a flow of 300 litres per hour. KlarAid PC2712 gave excellent results in terms of both water quality and sludge. It was decided to break the emulsion with KlarAid PC2712 without pH adjustment, and using only one product. As the concentration of oil in the emulsion was not constant, the selected technology had to be forgiving with regard to oil concentration changes. KlarAid PC2712 was found to provide excellent performance. The dosage of KlarAid PC2712 required was 2.5 kg per ton of emulsion. A 10% solution was continuously added to the flow of emulsion. The first reaction tank was equipped with a fast stirrer, and the second tank with a slow one to ensure complete reaction. The split emulsion was then passed into a flotation separator to extract the oily phase from the water phase. The manpower and the degree of control required for the whole operation were both very low.



## results

Using KlarAid PC2712 to split the emulsion gave a number of important advantages:

- Only one product needed
- Little manpower required
- Low sensitivity to variations in the oil concentration
- Protection of the installation by use of a non-corrosive product
- Safe to handle
- Cost reduction

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