

RM-10

CHEMISTRY

**SPECIALLY DESIGNED
FOR DIFFICULT TO
TREAT WASTE WATER**



Fully Automated Skid Mounted System

Single Step Treatment

Unlike conventional wastewater treatment systems that require multiple chemical additions throughout the process, [Baldwin RM -10 ®](#) is applied in a single application.

Unique Process

Baldwin's line of products are a range of clay based powder chemicals which remove emulsified oil, heavy metals, phosphates and suspended solids from [wastewater](#) with a one tank, one chemical process.

The Baldwin RM -10 ® chemicals are composed of minerals, inorganic and organic acids, bases and polymers blended into complex and carefully controlled formulations.

Applications

Typical proven applications include:

- Paint manufacturing – Wash waters
- Oily Water Treatment
- Corrugators – ink and glue water
- Vibratory de-burring
- Diecasting
- Metal working coolants
- Plating
- Equipment washdown
- Parts washing
- Phosphate removal



How RM-10 ® Treatment Works

- Step 1: The acidic component becomes active, reducing the pH and breaking oily emulsions.
- Step 2: Cationic polymers attract the oil and some of the sparingly soluble negatively charged species such as phosphates.
- Step 3: The basic component becomes active, raising the pH high enough for removal of metals, which form insoluble hydroxide precipitates.
- Step 4: Heavy metals remaining in solution exchange with the sodium on the clay and bond to the clay by electrostatic force.
- Step 5: The reacted mass becomes permanently encapsulated by the clay particles leaving clear water, and a non-leachable sludge.



Benefits

Safe & Simple

Chemical handling and storage facilities are minimised; only one non-toxic chemical is required as opposed to three or more using conventional wastewater treatment.

Sludge Disposal

The micro-encapsulation process, in most cases, creates a sludge that is non-leachable and can be disposed of directly to non-hazardous landfill. Sludge volumes are minimised as the clay base retains no chemically held water.

Equipment

Various designs and configurations enable efficient and economical treatment of most industrial wastewater applications.

- Small "Busta" units are for treating 300 - 500 litres per day. They are manual and economic.
- Semi-Automatic units require minimal operator time and are available in stainless steel construction and ideal for treating 750 -1000 litres per hour.
- Fully automatic units are PLC controlled and of stainless steel construction.
- Treatment rates range from 1000 litres per hour up to 10,000 litres per hour and can continually treat without operator attention 24 hours a day.

Consumables

Stocks are always on hand for all consumables, including chemicals and filter media.

Contact Us

Give us a call for more information about our services and products

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