

Service Bulletin: MART Power Washer

Volume 1 Issue 8

Subject: Power Washer Chemistry

By: John Freeborn

Manager-Chemical & Environmental Services
The MART Corporation

Most commercial detergent systems are designed for high concentration, low pressure jet spray systems. While chemicals are necessary to enhance the cleaning process, your MART POWER WASHER does not rely primarily on chemical concentration. When charged with a light concentration of cleaner, 2–5% by volume, your POWER WASHER will provide quality cleaning.

Chemical cleaners fall into three general categories:

- Organic Solvents
- Emulsion Cleaners
- Aqueous Alkaline detergents

Generally, the water based alkaline cleaner is composed of water, an alkali source, a sequester, a surfactant package and corrosion inhibitors. The sequester is a binding agent that prevents undesirable chemical reactions, such as those that would form insoluble products like hard water scum. The surfactant is a substance that lowers surface tension in order to penetrate and loosen soils. It coats oil droplets and prevents them from recombining. A corrosion inhibitor slows down the rate of the chemical reaction that produces rust.

A water based alkali cleaner works by undercutting the soil, then “popping” it from the part surface. Light oils float to the top where they can be skimmed off. Heavier soils sink to the bottom and can be filtered or removed as sludge.

MART POWER WASHERS are designed and manufactured to work with wash solutions that are the same specific gravity and viscosity as water. Chemicals or additives which alter the specific gravity or viscosity of the wash solution need to do three things, First inspect all nozzles and make sure that they are clean and do not have particles blocking the flow from the pump.

will change the overall performance of the system and may cause damage to the washer pumping system.

MART Power-Kleen detergents and additives are specifically formulated for use in recirculating POWER WASHERS. As a result, you are assured that there is a product specifically designed for any cleaning application. All Power-Kleen products provide the highest degree of efficient, effective cleaning.

MART Power-Kleen products have been optimally formulated with 100% Active Chemistry. No unnecessary binders or fillers are present which may inhibit cleaning efficacy or cause damage to the washer or the parts being cleaned. Most commercial detergents today contain many unwanted components that have nothing to do with cleaning. These ingredients fill up space within the active chemical so there is an appearance of getting more product for less money.

Good chemical management is crucial to the successful operation of your POWER WASHER. It is imperative that you check the cleaning solution daily and adjust as necessary. This is important not only for the cleaning results, but it will also reduce cleaning time and other chemically related problems such as foaming and corrosion of the washer.

The MART Corporation has spent more than four years in field testing and engineering Power-Kleen chemical products. We've been helping customers for over 30 years, developing state of the art cleaning systems that provide the highest cleaning standards in more than 17 industries. Chances are, The MART Corporation has a solution for your company.

For MART Technical Services call:

1-800-543-MART

Monday-Friday 8:00am to 5:00pm (central)

e-mail: jessea@martwash.com

Website: www.martwash.com