



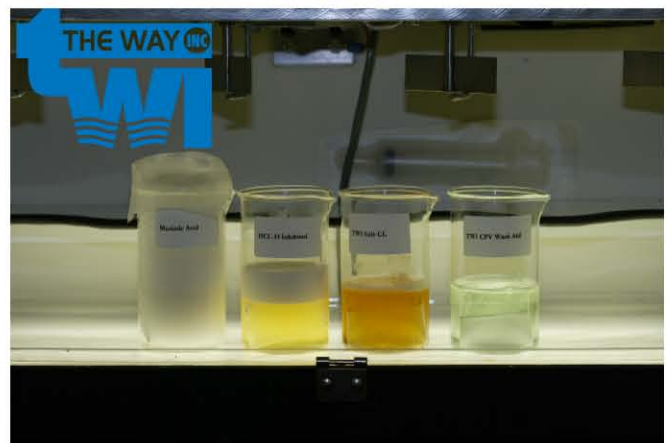
Acid Product Comparisons

Acid Cleaning without Corrosion

Background

The concrete industry has utilized a variety of acid based products for removing concrete from vehicle trucks, cabs, and drums. As the amount of concrete increases beyond a film or haze, more aggressive chemicals are required. The utilization of the more aggressive chemicals results in significant vehicle corrosion, paint degradation, and mechanical failures.

This bulletin demonstrates the attack of various chemicals on an aluminum surface.



Chemicals

The following chemicals were utilized in the study:



- Hydrochloric Acid. Commonly referred to as Muriatic Acid. Very effective at removing thick layers or aged concrete. Causes irreversible damage to all vehicle surfaces.

- Inhibited Hydrochloric Acid, provided as TWI HCL 33IH. An inhibitor package is blended with acid to reduce the corrosion to metal surfaces. Other surfaces are not protected.

- TWI Safe CL. This acid blend has a unique property of being non-hazardous in its concentrated state. It does provide a much improved safety and corrosion alternative to concentrated hydrochloric acid formulas.

- Specialty Acid Blends, TWI CPV Wash A60 and NuPower 740I offer the concrete industry optimum cleaning formulations that cleans and minimizes damage to vehicle surfaces. They do not require a secondary product to neutralize or to prevent corrosion of truck surfaces.