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SPECIALTY CHEMISTRY

WASTE MANAGEMENT

APPLICATION TECHNOLOGY

INNOVATIVE ENGINEERING

Product Application Presentation

Product Identifier:

TCI 525 H.D.

Process Identifier: **Stainless steel and aluminum brightener concentrate for truck wash facilities and mobile operators**

Product presentation

TCI 525 H.D. is a blue liquid concentrate of environmentally friendly dilute acids with powerful biodegradable surface active agents. It is designed for the retention and restoration of high optical reflectivity and passivation of stainless steel, as well brightening of aluminum metal surfaces.

Process introduction

TCI 525 H.D. is designed to effectively remove residual dirt, oils, black welding & diesel soot, rust & oxidation on painted surfaces, smut, atmospheric contamination on fibreglass and painted siding, corrosion & oxide films from aluminum and stainless steel surfaces.

Process specificity

TCI 525 H.D. is specifically formulated to achieve ASTM A380 standards when applied as a light spray directly from the container to the surface to be cleaned using the Manufacturer's approved Chemical Applicator System...

This product is designed for cleaning manufactured products such as motor homes, RVs, horse trailers, cattle pots, recycling trucks, feed carriers, semi dumps, bulk carriers (milk, flour, cement, petroleum, etc.) wheels and fuel tanks at the maintenance facility of the owner or fleet operators. Existing service equipment can be rinsed with high pressure tap water.

For manufactured Stainless Steel articles it is imperative that the manufacturer use high pressure (3,000psi @4gpm) cold Reverse Osmosis Water or even Deionized water to release and remove all residual chemical cleaning solution from the surface and let air dry. "NOT HOT WATER"

Product application procedure

To start operation, set up the chemical applicator system and regulate the air pressure to 340–400 kPa (50–60 psi). The pump will operate automatically by starting and stopping the flow on demand at the wand.

CAUTION: Do not spray **TCI 525 H.D.** directly onto a hot metal surface since it will alter the chemistry resulting in staining. Walk around the whole unit being treated and thoroughly cool and wet the entire surface on a hot sunny day. The best time is early in the morning or evenings. Spray the chemical solution directly from the drum unto the metal surface and have the pressure washer ready for rinsing. Apply the chemical solution as a spray to the entire aluminum surface or stainless steel of the unit's body starting from the bottom and working up. Assure complete thin film coverage. Once the application is complete, allow approximately a **ONE TO TWO MINUTE** chemical exposure time. Exposure time is directly proportional to soil INSPECTION. Brushing is optional.

CAUTION

Do not let any chemical dry on the surface (wind drift chemical spray is a potential danger) i.e. concentrated chemical without water may stain surfaces if allowed to dry and not rinsed in time.

Rinse the section with high pressure (cold) water starting at the bottom and consistently moving with a 5 inch fan or less in a horizontal pattern until the top is reached. **Then rinse all residual chemical solution thoroughly from the surface working from the top down.** When the entire unit or article is complete, Start

power washing in the same pattern as the chemical application. If need be re-apply **TCI 525 H.D.** for a second time as a thin film to the entire aluminum or stainless steel surfaces. This will produce a clean even finish. As the new aluminum or Stainless Steel surface is now exposed to the air it will form a natural aluminum oxide film or chromium oxide film on stainless steel protecting it against pit corrosion by iron and is thus passivated.

Do not use on highly polished aluminum unless you are going to paint it. On highly polished stainless steel apply the spray in sections and immediately pressure wash.

For mill finish stainless steel passivation spray the entire article thoroughly. It is mandatory to pressure wash at close range with R/O water after a 2 minute dwell time to meet ASTM A350 Standards.

Accessories on finished products, such as light assemblies, reflectors, plastics, brass, stainless steel, hard chrome, decals, logos, wood, tarps, mud flaps or rubber tires are not altered or defaced by this chemical solution when used according to directions. Glass should be protected from chemical exposure by wetting the surface and immediately rinsing with water. This process does not affect painted surfaces or glass and mirrors as long as the chemical solution does not dry. Unprotected carbon steel surfaces are prone to flash rusting and should be protected with a protective oil or repainted.



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BEFORE



AFTER



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