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PRESS RELEASE



Remove Coatings, Oil, and Grease Economically, Easily, and Safely While Adding VpCl® Corrosion Protection!

Corrosion is an expensive and persistent problem that must be carefully handled in a step-by-step process. Most metals become extremely contaminated with heavy rust, scale, and hydrocarbon deposits. These contaminants must be removed before further processing will be effective. Surface preparation is a very important first stage in the corrosion protection process. This essential step is conducted before the application of corrosion protection coatings. In fact, one of the main causes of corrosion-related problems is poor surface



preparation. This is because anticorrosion coatings are directly affected by the surface to which they are applied.



VpCI®-414 effectively removes dirt, oils, and greases or other cosmoline-like products.

If the surface has not been properly prepared, the coating will not adhere properly and this will result in the reduced effectiveness and longevity of the corrosion protection coating. Surface preparation is most often used for steel, aluminum, and concrete materials. Cortec's environmentally responsible products make it easy to clean multi-metals, remove rust, and condition and prepare metal for temporary or permanent coatings and packaging. Cortec's surface preparation products also add proprietary VpCI® corrosion protection.



One of Cortec's bestsellers is VpCI®-414, a worker-friendly water-soluble cleaner and degreaser. Designed as a special heavy-duty temporary coating and wax remover, VpCI®-414 concentrate is extremely effective in the removal of dirt, oils and greases, or other cosmoline-like products. VpCI®-414 will work for vertical power-washing applications. VpCI®-414 cleaner provides a cost-effective way to remove grime effectively, easily, and safely while adding corrosion protection. It will not affect painted surfaces. VpCI®-414 can be applied at full strength or diluted. It provides multi-metal corrosion protection, even up to 48 hours after parts have been cleaned.

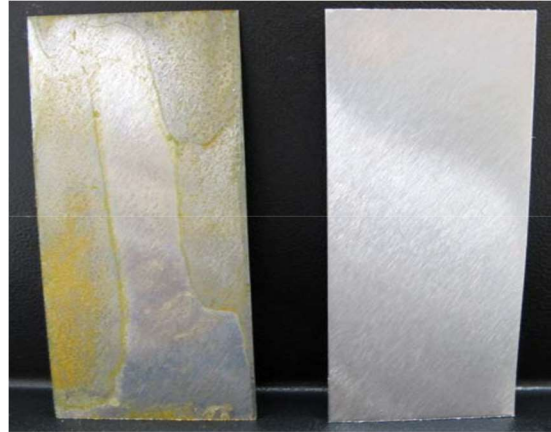


**Cast Aluminum Panels
after 42 hours**



Control with 10% VpCI®-414

**Carbon Steel Panels
after 42 hours**



Control with 10% VpCI®-414

According to the flash corrosion test, VpCI®-414 at 5% and 10% concentration was found to be very effective for preventing corrosion on carbon steel panels and significantly improved corrosion protection on cast aluminum. The immersion test showed that VpCI®-414 provides corrosion protection on both carbon steel and cast aluminum panels at 10% concentration.

Non-flammable VpCI®-414 does not affect painted surfaces and remains active even if left to dry. It is mostly used at room temperature, thus reducing energy consumption, but it can also be used in a heated bath for heavy hydrocarbons. The product is highly effective at low concentrations and can be diluted as much as 1% by volume. It is easily applied, and no special respirators or breathing equipment are needed for most applications. Metals protected are carbon, stainless and galvanized steel, cast iron, copper, and brass. VpCI®-414 has been used in cleaning and corrosion prevention applications by global companies worldwide including a “Big Three” automaker and the Air Force of a major world power, who used VpCI®-414 as part of Cortec’s “Clean, Protect, Preserve” program and achieved high performance, cost-effective, and easy surface cleaning.

Lower Cost, Improved Cleaning Solution for Parts Washing Machine

A plant located in India manufactures a wide range of excavators. Before assembling the gearboxes, workers were cleaning the parts in the washing machine using an alkaline industrial cleaner at 5-6% concentration, maintaining the temperature at 65-70 °C (149-158 °F). Sump life of this cleaner was 30-45 days. After washing the parts, oil remained on the surface. This was unacceptable to the customer. They were searching for a cleaner with good cleaning ability, short-term rust protection, and an economical cost. Since they did not want to make many changes in the existing process, they introduced Cortec® VpCl®-414 to the washing



VpCl®-414 Cleaner Degreaser is also available in air-propelled EcoAir® aerosol spray cans.

machine at 0.5% and maintained the temperature at 65-70 °C (149-158 °F). The problem was solved at a lower cost without making any changes in the existing process. VpCl®-414 is user friendly, and the cleaning quality is better than with other cleaners on the market even at very low dosages. The customer no longer faced cleaning issues and oil carryover on the surface due to the excellent properties of VpCl®-414. The Indian manufacturer implemented VpCl®-414 in the parts washing machine and started ordering it regularly, also planning to install one more washing machine in which to use Cortec® VpCl®-414.

Cortec® Corporation is the global leader in innovative, environmentally responsible VpCl® and MCI® corrosion control technologies for Packaging, Metalworking, Construction, Electronics, Water Treatment, Oil & Gas, and other industries. Our relentless dedication to sustainability, quality, service, and support is unmatched in the industry. Headquartered in St. Paul, Minnesota, Cortec® manufactures over 400 products distributed worldwide. ISO 9001, ISO 14001:2015, & ISO 17025 Certified.