



## PROTECT-CLEANER

**PROTECT-CLEANER** from POLIGRAT is quite the „Egg of Columbus“ for cleaning, restoration and maintenance of Stainless Steel.

By the time Stainless Steel surfaces often become patchy and rusty, looking far apart from nice and noble. Mostly not the material itself is the origin of the problems, but mistakes in fabrication or detrimental environmental influences.

Contamination by traces of Mild Steel from tools, dust or grinding sparks starts ongoing corrosion. Salt spray from nearby seaside or de-icing of roads as well as inadequate cleaning chemicals containing chlorides or hydrochloric acid, as frequently used in swimming pools cause brown spots and pitting corrosion. Deposits of dirt forming layers in combination with moisture can also start crevice corrosion.

Cleaning of contaminated and corroded surfaces on Stainless Steel and recovering their corrosion resistance without destroying the finish or causing safety or environmental hazards is often critical and hardly possible.

Mechanical cleaning by abrasive rubbing, brushing or grinding will scratch and damage the finish and remove the corrosion products only, but do not eliminate the cause of corrosion, which consequently will return soon.

Chemical pickling and passivating often use aggressive acids like hydrofluoric acid, nitric acid and phosphoric acid, which may damage the surface by etching and cause nasty dull matt stains. Besides that, when applied these chemicals are hazardous to people and environment during application. They only can be used under strict caution and control. Application on site and on large surface areas is limited and also the rinse water from cleaning must be collected and handled as hazardous good.

**PROTECT-CLEANER** solves these problems by only one treatment using one product only:

- **PROTECT-CLEANER** removes dirt, rust and contamination without impact to the base metal.
- **PROTECT-CLEANER** does not harm the finish and can be applied to all types of surface.
- **PROTECT-CLEANER** is applicable to all types of Stainless Steel with a Chrome content of at least 16 %.
- **PROTECT-CLEANER** stops corrosion and re-passivates the surfaces against new corrosion. Regular use application keeps surfaces free from corrosion even under severe environmental conditions.
- **PROTECT-CLEANER** is fully bio degradable and not hazardous. It is applied at environmental temperature. Application is not restricted and rinse water can be drained without risk.
- **PROTECT-CLEANER** is easy to apply and does not smell or produce fumes.

**PROTECT-CLEANER** is a viscous liquid, which stays on the surface without dripping off. It is applied by wiping or brushing or spraying. It should remain on the surface between 1 and 3 hours, depending on intensity of dirt and corrosion. Repeated application can be necessary to keep the surface wet. Finally the surface is cleaned by wiping with a soft material followed by cleaning with water.

**PROTECT-CLEANER** does not remove heat tint or scale.

**PROTECT-CLEANER** combines excellent cleaning power with the ability to soften and dissolve rust and ferritic contamination. Corrosion will be stopped and the corrosion resistance after treatment will be remarkably increased. By the application of **PROTECT-CLEANER** the chemistry of the passive layer is improved by elimination of free iron and a drastic increase of the concentration of Chrome.

**PROTECT-CLEANER** is a product of **POLIGRAT®**

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