

TORAN™ SERIES

TORAN™ was developed from the well-known PLAFORIZATION™ One-Step, no heat, no water, no waste technology available since the late 1970s. PlafORIZATION™ is now in use by more than 500 customers world-wide. TORAN™ works on the same principles to clean and seal metal surfaces simultaneously in a single stage at room temperature.

After pretreatment, not only is the metal ready for painting, but the process also improves paint adhesion as well as corrosion protection.

Moreover, unlike conventional phosphating processes, steel treated with TORAN™ shows excellent temporary corrosion protection; so unpainted items will resist rusting for several weeks if stored indoors on premises with normal relative humidity.

SURFACES THAT CAN BE TREATED

TORAN™ can be used to simultaneously treat mild steel, cast iron, galvanized steel, aluminum and the majority of aluminum alloys. TORAN™ is compatible with most paint vehicles (solvent- and water-based paints, powder coatings).

HOW IT WORKS

TORAN™ operates by either flowcoating or dip application. The processing cycle includes the treatment phase, 60-90 seconds, the draining phase and the drying phase. In the drain station, cold air is blown over the parts to recover excess liquid, while the final station is a dry-off oven where fluid flash-off curing of the sealant is performed.

INSTALLATIONS

Plants are simple and compact. Plants must include a filtering unit and adequate ventilation/exhaust equipment.

CLEANER PRODUCTION

TORAN™ was developed to provide a safe method of cleaning and sealing, from the point of view of both environmental and operator safety.

NO EFFLUENT

TORAN™ is capable of treating indefinitely, without the need to remove effluent, so long as the parts to be treated are not contaminated with more than 13 - 14 gm/100 ft² (1.4-1.5 gm/m²) of oil on average. TORAN™ is a no-rinse, water-free and sludge-free process, so there is no effluent, ever.

AIRDEGRADABILITY

TORAN™ uses Airdegradable fluids, which demonstrate an extremely high compatibility with the environment. Due to their extremely low vapor pressure, TORAN™ chemicals emit virtually no VOCs. The products contain no halogenated compounds, ozone-depleting compounds, carcinogens, mutagens, or hazardous air pollutants.



ECONOMIC SAVINGS

TORAN™ works at room temperature, so no thermal energy is required. There is no waiting for warm-up, as with heated systems, before work can start. There is no effluent, ever. There is no downtime for messy cleaning of the tank. There is no cost for effluent/waste disposal. Use of TORAN™ does not involve large capital expenditures for installations. Plants are more compact and simpler compared with conventional multi-stage aqueous phosphating processes. TORAN™ is simple to maintain and no complex daily analytical controls are needed.

EXPERIENCE

Chemtec and its predecessor Pai-Kor have a long and outstanding history in organic and inorganic chemistry and is a world leader in the development and production of organic pretreatment products, including PLAFORIZATION™ and now TORAN™ technologies. Chemtec's worldwide client base of over 500 installations demonstrates the company's solid base of technology in surface treatment.

Full technical details are available. Call for more information today.