

ADVANCED STRIPP PROCESS

PROCESS DESCRIPTION

STRIPP® IS THE REGISTERED PRODUCT NAME FOR THE COMPANY'S ENVIRONMENTAL FRIENDLY, EASILY BIODEGRADABLE, PRODUCTS FOR PAINT-GLUE-ADHESIVE REMOVAL.

BACKGROUND

The Stripp process is designed to generate high quality and capacity cleaning with a lenient and environmentally correct process, at a low cost. In these cases the Stripp process is excellent to replace pyrolysis, blaster and fluidised sand beds.

It is a well known fact that high quality painting requires a very clean paint shop. It is also a well known fact that the conditions of jigs and paint slaves have a direct effect on the quality output from the paint shop. Each percent of quality defects caused by dust or multi paint fragments cost enormous amounts of money. The Stripp process is developed to reduce this cost significantly.

In other cases quality defective parts may be of great value. In these cases the Stripp process can offer a solution to regenerate these parts. The process is often so lenient that the parts can be repainted directly again without further treatment.

PRODUCTS

The composition of Stripp is thoroughly designed to give a stable high cleaning function over a long period of time. In other words we have designed the chemicals to fit the needs and requirements of cleaning large and continuous quantities.

Stripp also fulfils the very high requirements regarding handling put forward by the telecom industry. It is lenient on most common materials and surface treatments.

Stripp is easily biodegradable and contains no strong acid or base. It is chemically and thermally stable with a high boiling temperature which makes it possible to create a functional and proper work place.

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STEP 1 Pre-rinse	The purpose of the pre-rinse is to eliminate corrosion inhibitors such as wax/ oil on jigs and slaves before paint removing. The pre-rinse consists of hot water sprayed on to the parts.
STEP 2 Stripp	The racks with goods are dipped in a tank filled with warm Stripp holding a temperature between 60 and 80°C. The process time varies depending on for example type of paint system, amount of paint and material structure on the parts. <i>A common process time in continuous cleaning systems for wet paint (car body paint systems) varies between 15 to 60 minutes.</i>
STEP 3 Final rinse	The goods are washed with water in order to remove loose fragments of paint as well as residual Stripp liquid. High pressure water is recommended in order to increase efficiency and reduce the use of water. The goods are now clean and put in a dust free environment in order to dry completely. <i>In order to improve the efficiency of the system the final rinse may consist of two parts. The first part rinse the details on racks from chemical residue and some paint fragments. The second part involves a thorough high pressure rinse. The water are back-flowed in the final rinse to reduce the total consumption of water and also to reduce the amount of residues let-out by the process.</i>

AUTOMATION

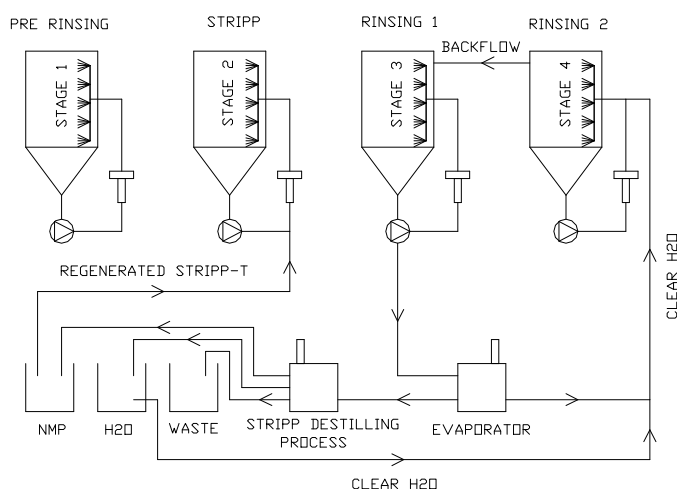
The process is supplied with an automatic handling equipment. This improves the working environment and increase the efficiency as well as the operating reliability. To further improve the efficiency, roller conveyors are integrated to the process for rational loading and unloading of the system.

VENTILATION

The Stripp products are based on high boiling components. However if desirable to minimise any emission to air the ventilation system may be supplied with a droplet or even a wet-scrubber.

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RECYCLING

RECYCLING OF WATER

In some cases it is desirable to reduce residuals and regenerate the rinse-water from the pre-rinse as well as the final rinse. In these cases the Stripp-process may very well be complemented by integrating an evaporator which will continuously clean the water.

RECYCLING OF RAW MATERIAL

Stripp Chemicals has an ambition to close the ecocircle and regenerate the basic chemicals from all liquid waste. Today this is done in large scale paint stripping facilities resulting in the elimination of waste up to 90%, leaving only paint fragments. All liquid waste containing higher concentrations of raw material is taken care of by Stripp Chemicals without cost for the customer. The system spares the environment, reduces the need for new raw material and is economically advantageous.

RECYCLING OF STRIPP

Waste such as paint residues include process liquid. This may be regenerated by pressing the liquid out of the paint fragments, using a simple press. The Stripp-liquid is then refilled and reused in the chemical step of the process.

MAINTENANCE

The maintenance is simple but also very important to keep the chemicals in good condition. A well performed maintenance will also prolong the life of the chemicals which means a more cost efficient process. There are two maintenance activities to be carried out regularly; rebalancing and cleaning. The rebalancing is done by replenish with base fluid and thereafter adding the required amount of surfactants.

Paint residuals and paint fragments consume the "power" of the chemicals and contribute to the degradation and deterioration of Stripp. Therefore they should be removed regularly through filtration or sedimentation of the Stripp.

SUPPORT

The objective is to create a stable and high efficient system over a long period of time. Stripp Chemicals emphasize our objective by providing continuous support to our customers regarding for example chemical analysis, operating recommendations, paint system evaluations.

ADVANTAGES

The Stripp process is in many ways unique and has many advantages.

- A high and stable function combined with long lasting performance.
- Lenient against material and surface treatments as well as environmental friendly.
- Permits a proper work place combined with ecocycling of waste.