

CONDORCOAT EC930

PRE-PAINTING NANOTECHNOLOGICAL PASSIVATING AGENT

Condorcoat EC930 is used both as a degreaser and, at the same time, as a passivating agent for multi-metal surfaces. It is mainly used to replace phospho-degreasing, zinc, tricationic and heavy iron phosphating processes.

The obtained conversion layer is compact, uniform, protective and has a thickness between 40 and 80 nm.

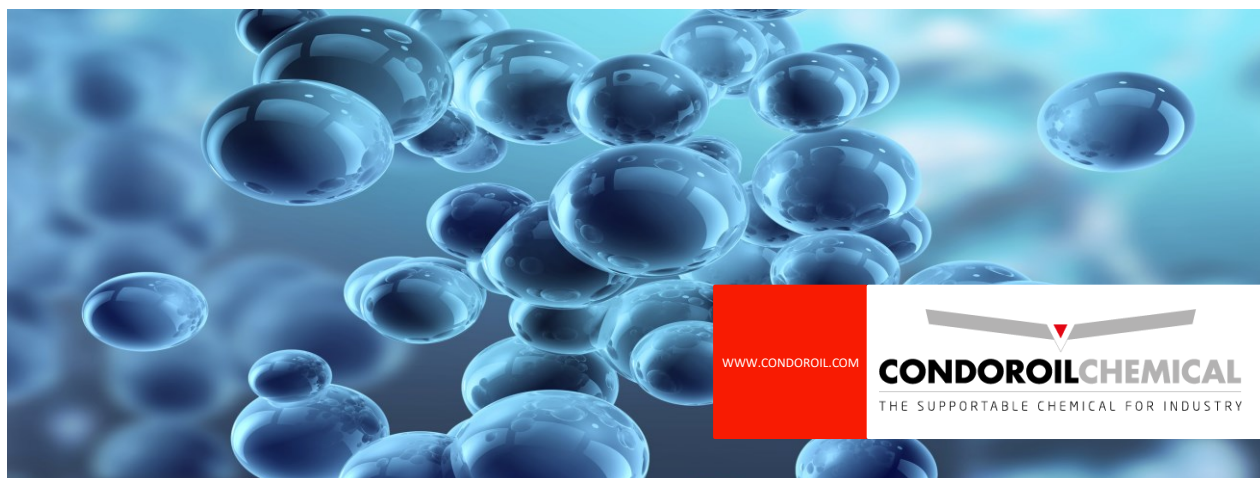
Condorcoat EC930 works by combining the passivating action, connected to the presence of acids and zirconium salts, with the wet action of surfactants.

The acidity of the product guarantees a local increase in pH on the surface, leading to the formation and deposition of a nanometric passivation layer consisting mainly of zirconium salts. This guarantees an excellent corrosion resistance of the treated material.

Passivation is guaranteed uniformly and homogeneously over the entire surface thanks to the wetting action of the low-foaming surfactants, active at room temperature.

Compared to classic phosphating processes, the advantages given by the use of **Condorcoat EC 930** are:

- Reduction of energy costs and evaporation, thanks to working temperatures between 20° and 30° C.
- Drastic reduction in maintenance interventions as there is no formation of insolubles and, consequently, the problems of sludge formation, clogging of pipes, ramps and nozzles and scale on of heat exchangers are eliminated.
- Simplification of the process as at least 3 less stages are required, compared to zinc phosphating. Checking the solutions is also much simpler. Consequent reduction in water consumption.
- Reduction in the consumption of chemical products thanks to the high efficacy and concentration of the product.
- Nickel and zinc elimination (the product is Zn and Ni free) which constitute an ever-increasing problem in terms of bath toxicity and waste water treatment.
- Drastic overall reduction in treatment costs resulting from all the previous points.



CONDORCOAT AL 91

MULTIMETAL NANOTECHNOLOGICAL PASSIVATING AGENT

Condorcoat AL 91 it is used to produce a transparent and passivating layer on aluminium, steel, zinc and alloys. This gives the metal surface excellent adhesion properties and also provides efficient protection against corrosion.

It is also used as a sealing layer to be applied to surfaces after iron or zinc phosphating, if high quality standards are required.

Condorcoat AL 91 it is a liquid product, chromium and phosphates free and does not contain heavy metals or harmful substances or VOC.

The product does not require rinsing and it is used after cleaning or conversion processes to increase pretreatment results.

Condorcoat AL 91 thanks to its special formulation does not produce sludge.

Moreover, thanks to its neutral Ph, it is perfectly compatible with any type of metal and does not cause corrosion of the plants.

