

# Condorfos K 40 L

## Physical-Chemical Properties

### CONDORFOS K40L FORMAZIONE

Physical State	: Clear liquid from colourless to pale yellow
pH alt 1%	: 2,9 – 0,3
Chemical composition	: Mixture of sodium chlorate in acid environment for phosphoric acid

### CONDORFOS K40L ALIMENTAZIONE

Physical State	: Colourless clear liquid
pH alt 1%	: 1,9 – 0,3
Chemical composition	: Mixture of monosodic phosphate, sodium chlorate in acid environment for phosphoric acid

## Typical Application

CODORFOS K40L is an acid surface conversion process (phosphodegreasing or iron phosphate phosphating) designed for cold rolled (CRS) coil and sheets treatment before plastic or paint coating.

The conversion layer which forms is made by oxides and iron phosphates whose weight is usually between 0,2 and 0,5 g/m<sup>2</sup>.

The product is used at spray or immersion, in aqueous solution. CONDORFOS K 40 L FORMAZIONE has to be used at the bath set up while CONDORFOS K40 L ALIMENTAZIONE is the replenisher.

## Characteristics

Presence of particular wetting additives enhances the degreasing power while the accelerating agents foster the quick formation phosphatic layer on the ferrous surface. Product is a unique and complete product, it does not need other additives such as surfactants, etc. but, in case it should be necessary to improve the detergent power, it is possible to add an additive directly in the tank. MIX CM if product is used by immersion while MIX A or MIX 1312 additive if product is used by spray.

When the solution is prepared the pH should be adjusted by adding our Additive Alkaline

## Application conditions

Concentration of use	: 120 - 1405% g/l of CONDORFOS K40 FORMAZIONE
Working temperature	: 55 - 70 °C
Treatment time:	: 4'' – 30''
Pressure of spray	: 0,5 – 2,0 bar

### **Bath replenisher**

Add CONDORFOS K40 ALIMENTAZIONE at a rate of 8,5 for each point of total acidity consumed compared to the initial value and for each 1000 l of solution

In case of total or partial tank remake, i.g. in phase of sludge removal, after the solution is back to the tank, fill the tank with water bringing to working level and make the solution circulating for some minutes.

Determine point of total acidity and bring it to the value set with CONDORFOS K40 FORMAZIONE at a rate of 13,5 kg for each missing point and for each 1000 lt of solution

### **Construction Material**

All material in contact with CONDORFOS K40L can be in mild steel, except for the heating elements that must be in stainless steel AISI 316 and the nozzles , preferably, in stainless steel AISI 304.

