

# Evolution

## STARCH OFF

Optimized biodegradable enzyme control for starch removal, designed to work with CleanPrint's Automated Cleaning System

The solution to dried starch problems



[www.cleanprintsolutions.com](http://www.cleanprintsolutions.com)



Before



After

Cleaning in Place Enzyme based detergent series products

# Evolution STARCH OFF



**EVOLUTION STARCH OFF** is an optimized blend of enzyme based detergents designed to remove starch buildups overnight or during downtime, without using corrosive and dangerous caustic or chlorine cleaners.

## EVOLUTION STARCH OFF BENEFITS:

- Reduced down time from blockages
- Reduced board warping
- Reduced delamination
- Reduced cure temperature and energy cost
- Reduced solids in your waste treatment plant
- Cleans applicators giving even distribution of starch
- Replaces damaging corrosive caustic or chlorine cleaners
- Reduced water wastage and trade waste for treatment
- Time saved (hours) increases production or gives extra maintenance time
- Protects your equipment from excessive wear

## THREE WAYS TO USE EVOLUTION STARCH OFF

- 1 DAILY MANUAL MAINTENANCE:** Use a foamer to spray warm ESO onto areas of starch buildup during cleaning. Re-apply multiple times until the build-up has come off
- 2 WEEKLY MANUAL MAINTENANCE:** Mix ESO with warm water in your starch mixing tank and circulate through tanks, lines and pumps for at least 4 hours during weekly maintenance.
- 3 CONTINUOUS MAINTENANCE:** Install our patented automatic dilution and delivery system to circulate warm ESO on demand throughout your corrugator and starch kitchen. Makes your cleanups faster easier and more effective.

## PRODUCT SUPPLY

EVOLUTION STARCH OFF is supplied in 264 gallon/1000 litre totes to be diluted to 20% with water. It can be applied manually or automatically.

## WHY ENZYMES?

Enzymes are biological molecule catalysts that act on other biological molecules like starch. They don't get used up in each reaction and can work in the right conditions until all the starch is broken apart and dissolved. Enzymes are a part of nature and are fully biodegradable.

## STOP USING CAUSTIC OR CHLORINE CLEANERS !

There are no hazardous waste products in the EVOLUTION STARCH OFF enzyme process. By using EVOLUTION STARCH OFF you remove the need for corrosive cleaners, you also remove the undissolved solids and corrosive cleaners from your waste water, reducing your waste process costs.

***EVOLUTION STARCH OFF is optimised, unique, simple, safe and effective***

**Contact us now for more information and a convincing on-site demonstration**

## DISSOLVE TEST RESULTS

Lab test on ESO starch at 40°C, dilution 20%, with stirring. Best temp is 70°C



After 2.5hrs at 40°C with stirring, the ESO has become cloudy and the test starch is almost completely reduced to precipitate



Ecochem Australia Pty Ltd  
110 South Mountain Road  
Upper Plenty, VIC. 3756  
Ph: +613 5783 2902  
Mob: +61 448 823 309



Go online to Evolution Starch Off