



FGL International WET PHASE DIVISION

FINIKEM

## ECOSINT 25P

## A NEW SOLUTION FOR RETANNING AND FATLIQUORING

The optimized retaining process reduces water consumption and processing time. Additionally, it contributes to a potential reduction in CO2 emissions thanks to lower transportation needs for chemicals and reduced energy usage.

FGL International, a chemical company, has developed a new retanning and fatliquoring system using powder–based products. The process relies on the multifunctional product "Ecosint 25P," designed to offer a compact solution that significantly reduces processing time, water usage, energy consumption, and the amount of chemicals used. This innovative process addresses the need to minimize the environmental impact of leather production while optimizing operations.

The project is the result of significant efforts from FGL International's Research & Development department, which has focused on discovering and developing new technologies that allow traditional fatliquoring agents to be synthesized in powder form. This innovation represents a significant step forward in the retanning process, as it allows the complete replacement of liquid– phase products in this critical phase. The retanning stage is one of the most impactful in the LCA (Life Cycle Assessment) of the leather industry.

## ESTIMATED ADVANTAGES OF THE NEW FORMULATIONS

Standard liquid formulations	VS	New Optimized powder formulations
Drums : 40gr/Kg of plastic	PACKAGING	Bags: 4gr/Kg of plastic
7000 kg (FCL)	TRANSPORT	20000 kg (FCL)
1–5% w/w	SOLVENTS (VOC)	Absent
0,05–0,3% w/w	Biocides	Absent
Possible	Chemical Incompatibility	None

## CASE HISTORY: TECHNICAL AND PROCESS ADVANTAGES "ECOSINT 25P" VS "STANDARD"





Ø ZDHC