



Corrugator Sheet Plant

A facility that made corrugated sheet board was using a specialty flocculant to treat their wastewater. Unfortunately, it treated the water only one half of the time to acceptable levels for reuse as starch makeup. The facility had paid \$45,000 in the first 6 months of the year in chemical costs and \$40,000 in haul-off costs to haul the majority of the treated water offsite.

Integrated Engineers, Inc. developed a process to treat starch-laden wastewater using Floccin J. The process is to adjust the pH up to 10.2 to 10.5 with caustic and add 10lbs/1,500 gallons of wastewater making clear effluent and dry filter press cakes (and eliminated the use of DE as a press pre-coat). The chemical costs for the Floccin products were less than 50% of the previous chemical supplier and all of the water was of sufficient clarity and quality for reuse. Plant savings have been over \$70,000/year and zero discharge to sewer or haul off.



**Flocculated
Starch Water**



**Reaction tank with
'popcorn' Floc**