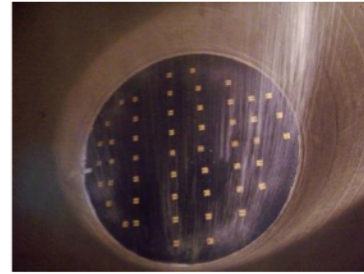
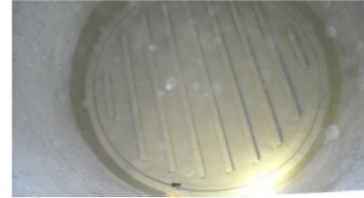


## Gelitan Extraction – Acid Soak



### Location / Year

Gelatin Processing Facility  
September 2009

### Fabricator / Applicator

ECC Corrosion Inc.  
Wisconsin Rapids, WI

### Fabrication Details: Resin & System

Cerarmix Liner AR-1 / C-1 Blend, 150 Mils  
Resin Swancor 901 – Food Grade Vinyl Ester  
Structure: Filament wound, w/Advantex ECR  
glass, and Swancor 901, MEKP cure system

### Technical Data

Initial order - Sept. 2009

- (4) 14'D x 26' Str. Wall
- Internal slope 0-30 Deg
- False bottom.

Subsequent order – October 2013

### Service Conditions

Chemicals: 5% Hydrochloric Acid Solution  
136,000# Bone Chips  
Temperatures: Ambient  
Pressure: ATM  
Cycle Time: 96 -120 Hours

### Design Considerations

Fiberglass Structure was design to replace Carbon Steel Flake Glass lined and Rubber liner tanks. Flake glass linings had a service life of 8-10 years, with substantial repairs after the fifth year in service. (Erosion/corrosion issues)

Poor service life of linings and atmospheric corrosion lead engineering to a fiberglass reinforce plastic (FRP) tanks. The tanks internal slope and false bottom made the design a challenge – yet solved the problem of costly relines and down time.

### Comments

Due to extended Warranty's provided by the manufacture. Yearly Inspections have been conducted since September/October 2010 w/no signs of erosion or corrosion.