



INTERPLASTIC CORPORATION  
Thermoset Resins Division

CORROSION

# CASE HISTORY

## CoREZYN Vinyl Ester Resin Has Nuclear Strength

**E**dwards  
Fiberglass,  
Sedalia, MO,  
has built more than  
200 fiberglass tank  
liners for storage and  
underground burial of  
nuclear waste. They  
rely on the powerful  
strength and superior  
quality of  
Interplastic's  
CoREZYN® VE8301  
vinyl ester resin to  
fabricate the tank liners.

The circular tanks are  
seven feet in diameter and  
seven feet high. The  
fiberglass liner,  
manufactured by Edwards,  
is held in place with steel  
reinforcement rods then  
shipped to Concrete  
Products, Memphis, TN, for  
concrete casting. Jeff  
Davis, plant engineer,



These completed tanks are ready for storing nuclear waste.

Concrete Products, said,  
“We went to Edwards after  
using another supplier. We  
had to have a very high  
quality product for these  
tanks.” Concrete Products  
pours a 12-inch layer of  
concrete over and around  
the liner. A lid is also  
formed at one end with a  
fiberglass liner and also

covered with twelve  
inches of concrete. The  
finished tank weighs  
approximately 55,000  
pounds and is a concrete  
cask with a vinyl ester  
composite lining.

The destination for the  
casks is the Oak Ridge  
Atomic Research Center  
near Knoxville, TN. There,



The fiberglass tank liners are made with CoREZYN VE8301 vinyl ester resin.

a stainless steel circular tank filled with a high level of radioactive waste is placed within the cask and sealed for temporary storage at Oak Ridge.

The ultimate goal is to receive approval to transport the casks across state highways to Arizona, for permanent placement in a salt mine hundreds of feet underground. When

the mine is filled with the casks, explosive charges will be detonated above and below the mine, solidifying the salt around the storage area and forming a casket for all of the stored material.

The tank construction project is supervised by Lockheed-Martin, the contractor hired by the U.S. Department of Energy

to plan and oversee the work.

Interplastic Corporation is a specialty chemical company with its headquarters in St. Paul, Minnesota. It is focused on the production and distribution of unsaturated polyester resins, vinyl ester resins and gel coats for the composites and cast polymer industries.



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