



THE PIPE & CULVERT REPAIR CONNECTION

# GEOCAST Geopolymer Mortar

January 2018

Corrugated Metal Pipe Rehabilitation

## Project Details

**PROJECT:**

SR 20 W Storm Sewer Rehab  
Tallahassee, Florida

**OWNER:**

Florida DOT

**DATE:**

2014

**PRODUCT:**

Geocast™ Geopolymer Mortar is a stand-alone structural mortar for rehabilitation of existing horizontal concrete pipes and steel corrugated culverts to be repaired in place with varying field conditions, shapes and sizes; and vertical shafts tunnels, mines, sewer manholes and

water treatment plant workings.

**PROJECT FACTS:**

**CONTRACTOR/ SUB:**

CW Roberts Contracting Co.  
Tramonett Enterprises, Inc.

**LOCATION:**

Leon County

**PIPE TYPE:**

60' x 70" Diameter CMP



**Existing elliptical CMP Culvert**

Centrifugally sprayed wet mix geopolymer mortar rehabilitation process using robotic equipment for lining horizontal concrete pipes, CMP culverts, vertical shafts and other structures.

## 30-Years of Successful Applications in USA, Mexico and Australia...



**PATENT:** No. 5,250,113 co-inventor  
"Dry Castable Concrete  
Compositions and Methods of  
Preparing and Casting the Same"  
W. R. Grace Company, New York,  
NY.

**The Problem** — Florida  
Department of Transportation  
needed to repave State Road 20  
West with asphalt pavement from  
Tallahassee to Blountstown; and  
replace the two [2] existing

elliptical shaped corrugated steel  
culverts there. The CMP drainage  
culverts were designated to be  
replaced by a destructive  
digging method. Additionally, the  
work site was positioned in a

narrow part of the roadway with  
limited shoulder space and  
running water under the highway  
allowing restricted access to the  
contractor.

**The Solution** — Instead of using  
costly hard pounding asphalt  
crushing replacement methods  
the FLDOT Operations  
Managers decided to seek a

non-digging solution. Ideally,  
the Geocast™ Geopolymer  
Mortar was there to provide a  
trenchless rehabilitation  
alternative that saved the

roadway and didn't destroy  
the culvert or harm the natural  
fauna and creatures  
preserving the environment.



Working with Geocast™ Geopolymer Mortar

### MANUFACTURER:

Standard Cement Materials, Inc.  
Houston, Texas  
1-888-278-1337  
[www.standardcement.com](http://www.standardcement.com)