PROBLEM Solution

Project:
Microwave Cable Spool

Owner:
Applied Research Labs
Austin, Texas

Installer:
Fast Set Coatings, Inc.
Austin, Texas

System:
EnviroLastic® AR 200HD

Area:
55 square feet / 130 mils

Completed:
February, 1999

The cable spool was being used for experiments at extreme voltages through a coaxial cable for sonar transmissions. The voltages were short bursts of 30,000 volts plus.

The problem in their experiments came from damage to the cable sheath by the spool. With the high voltages being sent through the cable, any damage to the sheath would cause a loss in the voltage. Faulty results were noted and the experiments could not be completed.

Rather than using a more expensive sheath system on the cable, they chose to evaluate the possibility of coating the metal spool to prevent damage to the cable sheath. The solution was to spray the inner spool area with 130 mils of the EnviroLastic AR 200HD system.

Even though the spool was coated to protect the cable sheath from being damaged, spark testing was done using voltages in excess of 30,000 volts on the coated spool with no damage or coating failure. The spools were coated and shipped back the same day and are still in excellent service.