

# SCAR-GUARD™

## (36) 36" OD BELL AND SPIGOT JOINTS

USA, MAY 2011



### Problem

A water project in South Dakota featured 36 bell and spigot field joints on a large diameter ductile iron line. The challenge was to provide a reliable coating at the joints that would survive a directional bore under a river crossing. Boring damage during pull though can create integrity issues with the field joint coating. In a best case scenario, damaged coatings are to be avoided, on an inaccessible line such as this, they are unacceptable.

### Conditions

Crews faced numerous challenges, including boring a 1,200' (365.8m) channel below the river in extremely muddy conditions for the new 36" OD line which was shop-coated with Pritec®, a popular Bredero Shaw coating made with a butyl rubber adhesive.

### Solution

The joints were first coated with a primer, then with a high-recovery sleeve manufactured by Canusa, a Shawcor company, prior to the installation of the Scar-Guard™. After applying the Canusa shrink sleeve, the crew applied 12 layers of Scar-Guard, which provided mechanical protection against abrasion during the pull through. Both the Canusa sleeve and Scar-Guard outer wrap were quickly hand-applied. Scar-Guard's fast curing resin system kept the job rolling.

### Result

Scar-Guard provided the added protection to safeguard the pipe and the job. The Scar-Guard system survived the pull-back fully intact.

