

CLOCK SPRING®

Application Note

Ultraviolet (UV) Protection for Clock Spring® and Snap Wrap Repairs

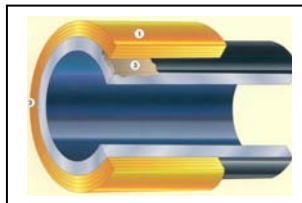
Clock Spring® and Snap Wrap repairs can be used above ground but must be protected from UV radiation. Clock Spring® and Snap Wrap reinforcement coils are a composite of polyester resin and e-glass. The resin is used to align and hold the e-glass in place and provides the shape memory for the coil. The e-glass is the strength member.

The polyester resin used in the manufacture of the reinforcement coil is isophthalic polyester and will degrade with prolonged exposure to UV radiation. (Clock Spring® is designed with so much conservatism that even if the outside wrap degrades it will not affect the integrity of the repair. To avoid concern we require the UV protective coating.)

Snap Wrap is made from the same resin and e-glass as Clock Spring® and must likewise be protected from UV radiation if used above ground.

This is not a limitation of Clock Spring® or Snap Wrap but rather a property of polyester resins.

Generally, Clock Spring® or Snap Wrap repairs will be covered with a corrosion barrier. In this case, additional UV protection is not required. In rare cases where the coil is exposed to UV radiation it should be coated with an opaque or UV rated coating.



Simply the smartest pipeline repair decision you can make!

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