

RD-6[®] Coating System for Line Pipe and Girth Welds

Polyguard's RD-6[®] leads our product offerings.

We design, develop, test, and manufacture our products from our headquarters in Texas, but our products and technical expertise are utilized on virtually every continent.



Polyguard's RD-6[®] Coating System is a non-shielding anti-corrosion system used on buried and submerged line pipe, rehabilitation and new construction girth welds. RD-6[®] can also be used above ground but the coating must be protected from harmful UV rays.

When used above ground, Polyguard recommends using the RD-6 UVO for an extra layer of protection from the sun. RD-6 consists of a liquid adhesive, a geotextile backed protective pipeline coating and SP-6[™] outerwrap. Corrosion protection comes from the polymer modified coating layer.

Bonded to the outside surface of this coating is a strong, tightly woven, polypropylene geotextile fabric, which provides non-shielding properties plus high breaking strength and low elongation. It is suitable for use with pipeline operating temperatures not exceeding 145°F (63°C). RD-6 has been in use since 1988 providing effective corrosion protection.

RD-6 coating is manufactured in rolls for ease of application using a Polyguard approved machine such as the Wrapster or power operated machine. These machines

are recommended for application in order to achieve optimum coating tension that is necessary to resist soil stress and aid in the adhesion process. RD-6 is produced with a silicone coated release liner to prevent the layers from adhering to one another and assist in the application process.

The Polyguard Wrapster is designed with two spindles, one providing tension of the RD-6 coating being applied to the pipe and the other to spool the release liner during the application process.

RD-6 utilizes compression and tension during the application process made possible by the woven geotextile, polypropylene backing to ensure proper long-term performance. RD-6 may be applied manually without using the Wrapster, but it is important to recognize that adequate tension should be used consistently during its application.

For pipelines operating at temperatures above this range, and up to 190 F (88 C), our RD-6 HT is recommended.



RD-6® is a non-shielding coating

- ✓ In the rare case where disbondment may occur, the pipeline is still protected because cathodic protection currents can reach the disbonded area. Once there, the current will mitigate corrosion, raising the pH of the water underneath the disbonded area as a result of the cathodioc reaction.
- ✓ The geotextile fabric backing of RD-6® does not shield cathodic protection currents.



RD-6® is less likely to fail (to become disbonded) because

- ✓ RD-6® has high adhesion, even if surface preparation is less than perfect.
- ✓ RD-6® is highly resistant to soil stress, a major cause of coating disbondment.
- ✓ RD-6® application time is quicker than almost any other coating and requires no cure time allowing for immediate backfill.



RD-6® has a long record of successful installations in the field

- ✓ The first installations of RD-6® were in 1988. By 1992, the product was being widely used in North America. Today, there have been thousands of installations in over 33 countries.

Click here to see videos on the RD-6 Application Process



For information about our products:

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