

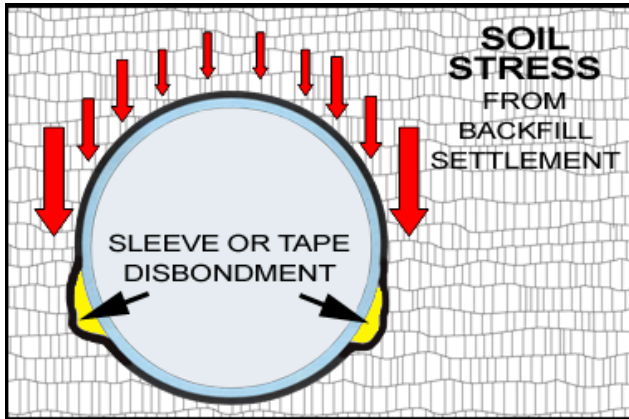
Polyguard RD-6 Pipeline Coating System

Advantage #2b

RD-6 has very high resistance to soil stress

Soil stress usually comes from backfill pressure as it settles around a pipeline. Typical result is a “bag and sag” at the 4 and 8 o’clock positions.

TYPICAL SOIL STRESS DAMAGE TO SHRINK SLEEVES OR SOLID FILM BACK TAPES



The RD-6 soil stress advantage comes from its backing. The RD-6 backing is a *high strength, low elongation polypropylene geotextile mesh*. The RD-6 backing helps with soil stress three ways:

A. Higher Tensile Strength:

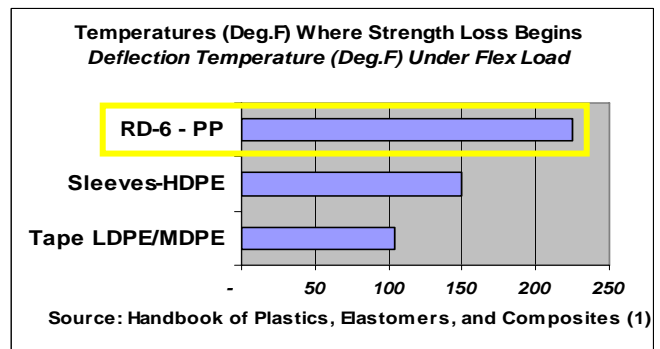
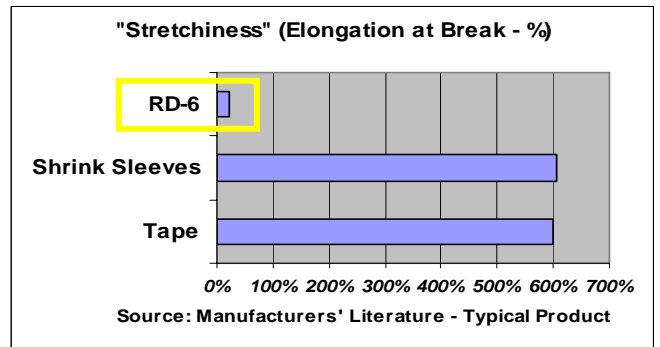
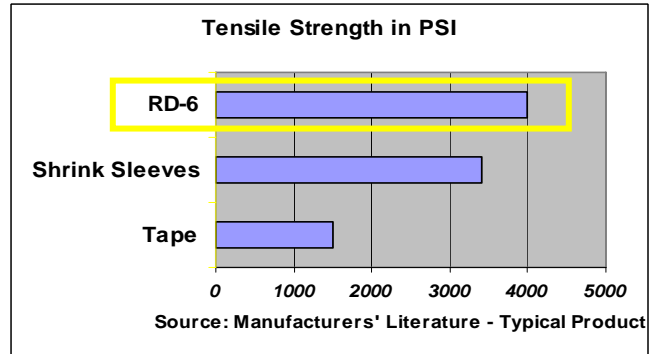
Somewhat stronger than HDPE shrink sleeves. Ten times stronger than typical tapes.

B. Less Stretchable:

A critical difference. 1/20th as stretchable as shrink sleeves or tapes.

C. More Resistant to Weakening from High Heat:

If your pipeline operates above ambient, polymers relax (begin to stretch) as you heat them. Polypropylene (used in RD-6) has 75°F higher resistance to this weakening than polyethylenes.



(1) 2nd edition. Published by McGraw Hill, Inc. 1992. pp C32-C37.

w.xl.RD 6 Adv Soil

Web Site: www.polyguardproducts.com/failsafecoating.htm

PH: 214-515-5000

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Polyguard Products' has been certified to these quality systems requirements:
- American Natl. Standards Institute
- Dutch Council for Certification
- Deutscher Akkreditierungs Rat

Polyguard RD-6 Pipeline Coating System

Advantage #2c:

RD-6 can be installed quickly and backfilled immediately

Several years ago a joint industry project⁽¹⁾ sponsored by US and Canadian pipeline companies tracked 11 coatings for speed of installation from start to backfill. “Tapes” and RD-6 as a group won this race by a big margin – **twice as fast as shrink sleeves, four times faster than liquid epoxies.**

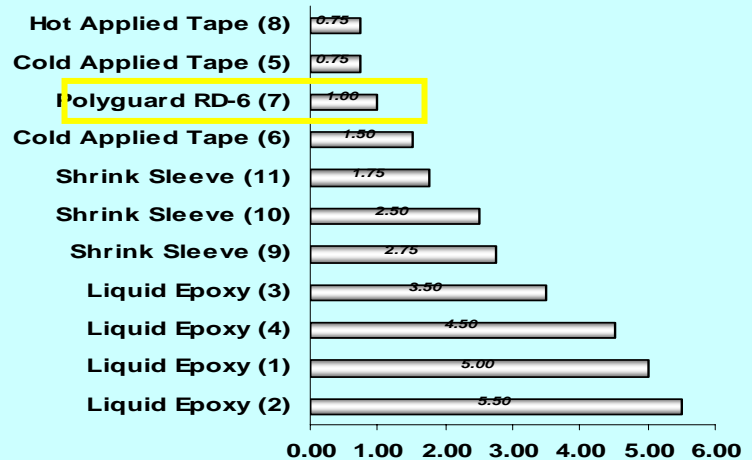
Polyguard prefers you to think of RD-6 as different from “tape”, since the RD-6 geotextile backing is many times stronger and far less stretchable than solid film back sleeves and tape. Another difference is that RD-6 won’t shield cathodic protection currents as do solid film back sleeves and tape.

However, like “tape”, RD-6 is supplied in roll form and needs no cure before backfill.

(1) Joint Industry Project Field Applied External Pipeline Coatings, June 1997, Charter Coating Service, Ltd, Calgary Alberta Canada

w.xl.RD 6 Adv Fast

Hours From Start to Backfill - Field Applied External Coatings



Source: Joint Industry Project-Field Applied External Pipeline Coatings



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Polyguard RD-6 Pipeline Coating System

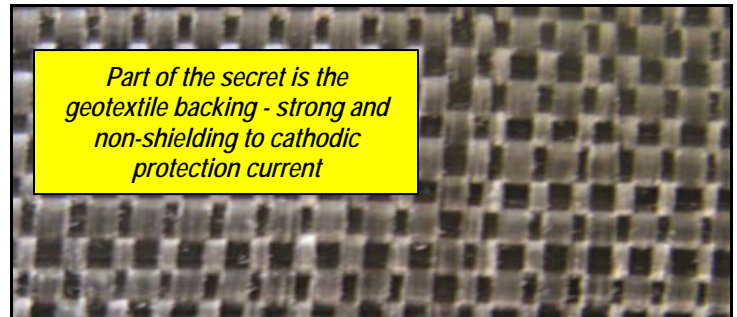
Advantage #3

RD-6 Is Not a Tape. (Or is it?)

Many pipeline operators have experienced problems with tapes. For these people, the word “*tape*” brings a very negative reaction. In North America, operators have largely banished tapes and shrink sleeves.

Bob Nee invented Polyguard RD-6. When Bob took early retirement from Surfcote/3M/Bredero Price in 1988 to rejoin Polyguard⁽¹⁾, the first thing he said was; “*Tape is on the way out.*” This news was not greeted with applause, since most of what Polyguard sold was tape. But we couldn’t argue when Bob showed us a study by the Pipeline Research Council⁽¹⁾ showing that gas transmission users were condemning solid film backed coatings due to corrosion and SCC failures from cathodic shielding, soil stress, and related problems.

In the RD-6 invention, Bob replaced solid film backing with high strength geotextile backing. The result is not a tape in the traditional pipeline coating sense. Read below and decide yourself.



RD-6 is <u>Not</u> a Tape, because...	RD-6 is <u>a</u> Tape, because...
RD-6 has a woven geotextile backing, proven not to shield cathodic protection currents	RD-6 is a long strip with coating compound wound on a roll
RD-6 is far stronger and less stretchable than solid polyethylene backings. Soil stress vulnerability is much lower	RD-6 has all the traditional tape advantages of easy, rapid installation

Our purpose with this ad is to address those who have lumped RD-6 into the dreaded “*tape*” category. The intent of the RD-6 invention was to eliminate the problems being caused by stretchable, solid film backings while maintaining the benefits of tape application.

(1) For details of Bob Nee’s story, the Pipeline Research Council study, and technical backup, see www.polyguardproducts.com/failsafecoating.htm

w..xl.RD 6 Adv Not a Tape

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