

Oil & Gas

SYNERGY  
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**SYNERGY**

PIPELINE COATING

by **POLYKEN<sup>®</sup>**

**BERRY**  
PLASTICS  
CORPORATION  
AND SUBSIDIARIES

CORROSION PROTECTION GROUP  
[www.berrycpg.com](http://www.berrycpg.com)

# The Most Cost-Effective Coating You Can Apply

*The hot-applied SYNERGY coating process will save you time and money. SYNERGY production lines run faster and use less expensive raw materials than other lines.*

*Production is highly efficient in a permanent plant or, to reduce transportation costs, in a portable plant near the right of way. An existing cold-applied tape production line may even be retro fitted for the SYNERGY process with the addition of pre-heat and post-heat ovens.*



Production begins with pre-heating and blasting the pipe to prepare its surface.



Next, the primer and the anti-corrosion barrier are applied. The non-adhesive, mechanical protection barrier is applied over the anti-corrosion barrier. Overlaps are offset.



The coated pipe is heated to fuse both barriers into one coating. Then, the pipe is quenched so it can be handled immediately.



Finally, the coating is quickly cut back at the ends before bonding is permanent.

# Synergy Pipeline Coating

Synergy, a proven pipeline coating for corrosion protection, offers corrosion prevention technology in a single coating system. This complete system allows you to lay defect-free pipe that resists corrosion longer than you thought possible.



## *Stands Up To Stress*

SYNERGY'S anti-corrosion barrier has a documented, 17-year history of successful in-ground performance. Heat from the fusion process gives its cross-linked butyl alloy adhesive superior bond strength. The result: excellent soil stress resistance.



## *Stays Intact*

A unique multi-layered, polymeric composition makes SYNERGY'S outer barrier tough, yet flexible. It contains no adhesive - instead, it's fused to the inner barrier. As a result, SYNERGY won't move and its fused edges can't turn over.

# Proven Performance in a

Polyken's advanced polymer and adhesive technologies make Synergy the toughest coating available. Two layers of coating are fused to each other and bonded to the pipe. The result: a tight, mechanically tough barrier against corrosion causing moisture and oxygen.



## ***Withstands Rough Handling At The Plant***

Pipes coated with SYNERGY stand up to the most challenging conditions. After repeated handling at the plant, during loading and during transportation. SYNERGY arrives defect-free at the job site.



## ***Bends Past API Specifications***

Insert SYNERGY - coated pipe into a bending machine either with or against the overlap. Bend a pipe coated with SYNERGY as much as necessary - even much farther. SYNERGY stays intact.

# Single System

Synergy is unequalled by any other coating system used in the market place. It delivers toughness, outstanding mechanical strength and tremendous handling properties as a single system and all at a competitive rate.

## *Withstands Rough Handling On The Right-Of-Way*

Sling it, Cradle it, Backfill onto it. SYNERGY stays holiday-free.



## *Performs In Extreme Temperatures*

Whether you lay pipe in the desert or in the Arctic, SYNERGY stays tough and flexible. Edges won't roll over and the system won't move - even when pipes shift on skids as the temperature changes.

## SYNERGY FEATURES

- **SUPERIOR BONDING** - Highest bond strength of any coating on market.
- **HIGH SHEAR STRENGTH** - High soil stress resistance.
- **CORROSION CONTROL** - Offers advantage of very low CP current requirements.
- **UNIFORM COATING THICKNESS** - Certified ISO 9002 manufacturing plant. Total quality production that operates on the principle of "Defect Prevention" followed by "Defect Detection".
- **DAMAGE CONTROL** - High Impact / Abrasion Resistance for shipping, handling and installation.
- **BENDING** - Out Performs all coating systems - Will exceed API Bending Spec 6 times - Outstanding cold weather bonding performance.
- **ENVIRONMENTAL FRIENDLY** - Total Coating System contains no materials which are in violation of OSHA or EPA regulations.
- **ENVIRONMENTAL STRESS CRACKING** - System is resistant to ESC due to appropriate polymeric alloys and stabilizers additions.
- **FUSED SYSTEM** - Total Coating System is fused, which forms one integral bonded coating system. No slip planes in overlaps of mechanical outerwrap.
- **PROVEN IN GROUND PERFORMANCE** - In use since 1989.
- **LOW CATHODIC DISBONDMENT** - Very low C/D - High Adhesion, (400-700oz / in width).
- **PIPE RANGE** - System can be applied to 2" -140" OD pipe.
- **EASE OF REPAIR** - System can be quickly repaired with cold or hot applied systems.
- **SCC INHIBITORS** - Inherent Stress Corrosion Inhibitors in the Synergy is compatible with Pipeline Market Cold/Hot Applied Joint Wrap Systems.
- **COATING CUTBACKS** - Precise to customer specification - Synergy is compatible with Pipeline Market Cold/Hot Applied Joint Wrap Systems.



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Berry Plastics warrants that the product conforms to its chemical and physical description and is appropriate for the use stated on the technical data sheet when used in compliance with Berry Plastics written instructions. Since many installation factors are beyond the control of Berry Plastics, the user shall determine the suitability of the products for the intended use and assume all risks and liabilities in connection herewith. Berry Plastics liability is stated in the standard terms and conditions of sale. Berry Plastics makes no other warranty either expressed or implied. All information contained in this technical data sheet is to be used as a guide and is subject to change without notice. This technical data sheet supersedes all previous data sheets on this product.



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