



V-BIO® Enhanced Polywrap FOR DUCTILE IRON

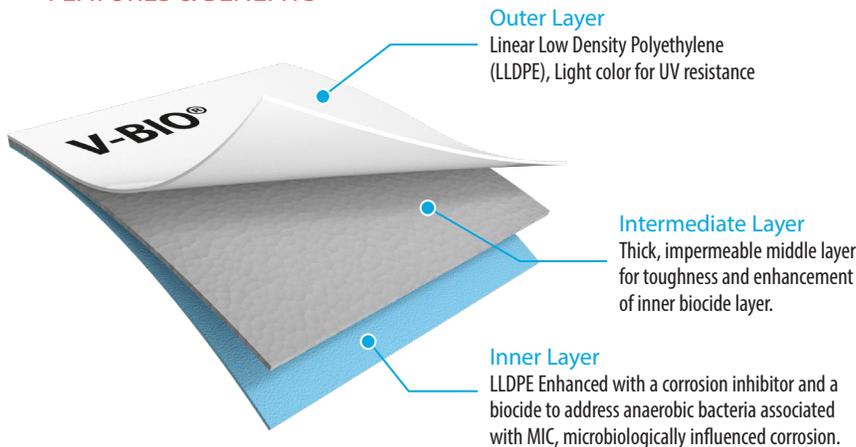
Polyethylene Encasement (polywrap) was first used in 1958 and since that time has been used to protect millions of feet of ductile iron pipe. It is the most economical and successful method of corrosion control for ductile iron pipe. Standard Polyethylene Encasement works by depleting the oxygen in the water under the wrap and over time the initial corrosion dissipates to a negligible corrosion rate. V-Bio contains both a corrosion inhibitor to eliminate this initial corrosion rate,

and also contains a biocide to address any corrosion causing bacteria which may be present in uniquely severe corrosion environments.

V-Bio Polyethylene Encasement inhibits and stops the initial growth of corrosion cells caused by anaerobic bacteria under the polywrap with a proven anti-microbial. The anti-microbial is part of a 3 layer co-extruded linear low density polyethylene (LLDPE) film that features an inside surface that

is infused with a proprietary blend of an anti-microbial to mitigate microbiologically influenced corrosion ("MIC") and a volatile corrosion inhibitor ("VCI") to control galvanic corrosion. This process, together with the added protection offered by two additional outer layers of special LLDPE film, ensure long life of the protection system. With three types of corrosion protection fused into one 8 mil thick film, it is truly the next generation of Polyethylene Encasement.

FEATURES & BENEFITS



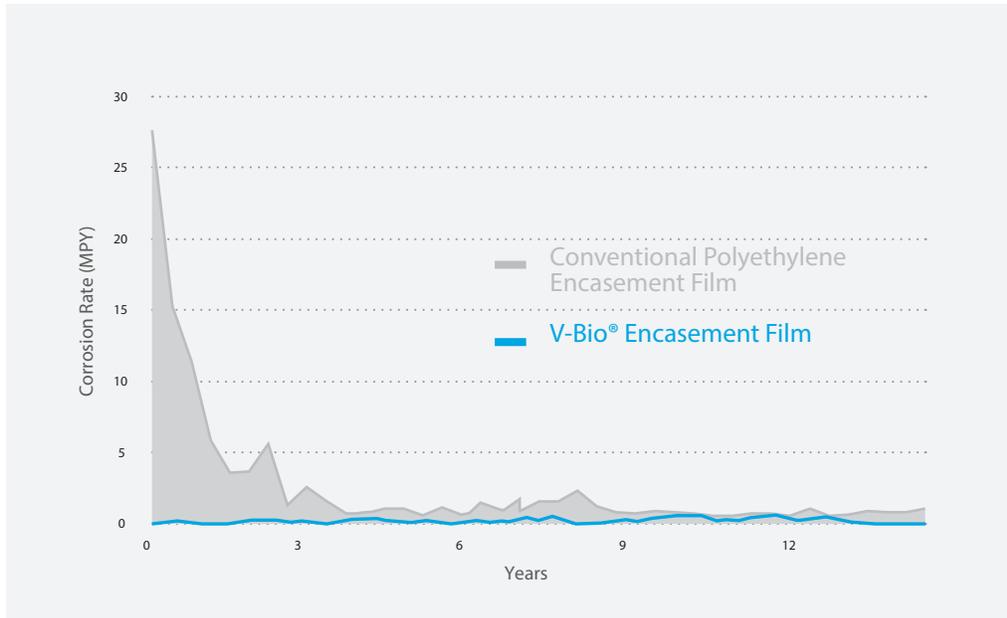
- PIPE
- FABRICATION
- RESTRAINED JOINTS
- FITTINGS
- GASKETS
- COATINGS & LININGS** <



CORROSION RATES WITH ENCASEMENT FILM TECHNOLOGY

Conventional Polyethylene Encasement film technology provides for corrosion control of ductile iron pipe systems by creating an environment where initial moisture will deoxygenate over time. As this deoxygenation occurs, the corrosion rates will migrate downward toward what is considered acceptable rates.

V-Bio revolutionizes Polyethylene Encasement film technology eliminating the initial corrosion rate normally associated with standard Polyethylene Encasement systems and provides for lower corrosion rates over time. The graph below represents the results from a uniquely severe Everglades corrosion test site.



STANDARDS

V-BIO Enhanced Polywrap meets or exceeds these standards for polyethylene encasement film.

- ANSI/AWWA C105/A21.5
- ASTM A674
- ISO 8180

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