



IRON STRONG

V-BIO

V-Bio Enhanced Polyethylene Encasement and Corrosion Control



McWane Ductile always looks to improve the products and services we provide the water and wastewater industry, especially because municipalities have come to expect a long service life from our ductile iron pipe. Polyethylene encasement is our most popular, economic, and successful method of protecting pipe from corrosion. Since its first water system installation in 1958, polyethylene has been used to protect hundreds of millions of feet of cast and ductile iron pipe in aggressive environments.

McWane Ductile is now taking pipe protection to new heights with the innovative V-Bio, an enhanced polyethylene encasement that provides significantly advanced corrosion protection for ductile iron pipe. Specifically, V-Bio addresses the potential influence of anaerobic bacteria and inhibits the formation of corrosion cells under the wrap.

Key facts about V-Bio enhanced polyethylene encasement:

- Builds upon a proven method of corrosion control — polyethylene encasement — that has been protecting iron pipe from aggressive soils since it was first installed in 1958.
- Consists of three layers of co-extruded linear low-density polyethylene film, minimum 8 mil thickness, that are fused into one that results in physical strengths up to 40 percent greater than the old polyethylene film, resulting in more damage resistant protection.
- Features an inside surface that is infused with a proprietary anti-microbial to mitigate microbiologically influenced corrosion (MIC) and a volatile corrosion inhibitor to control galvanic corrosion.
- Addresses two concerns raised over the years — the potential influence of anaerobic bacteria through MIC and the concern about the possibility of corrosion occurring under intact polywrap.
- Protects against corrosion without involving consumption or degradation of either the anti-microbial or the corrosion inhibitor. The film’s enhanced properties will not wear out!
- Meets all requirements of the American National Standards Institute and the American Water Works Association (ANSI/AWWA C105/A21.5) standards for polyethylene encasement.
- Is the next step in a proven, successful method of corrosion control.

For more details about V-Bio enhanced polyethylene encasement, ductile iron pipe, or McWane Ductile, visit www.mcwaneductile.com.



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Standard Dimensions and Weights

Pipe Size (in.)	Lay Flat size	Length Per Roll ¹	Tape Required ² per Joint (ft.)	Weight Per Roll ¹
4	20	500	5	72
6	20	500	6	72
8	20	500	8	72
10	27	380	9	73.9
12	27	380	10	73.9
14	34	300	11	73.44
16	34	300	12	73.44
18	41	260	13	73.8
20	41	260	15	73.8
24	54	210	17	81.6
30	67	150	21	72.4
36	81	132	25	75.27

¹Weights and lengths subject to change.

²Based on one turn at each end, six 4" long strips to secure loose wrap plus approximately 5% extra.