



IRON STRONG

DUCTILE IRON PIPE

ZINC-COATED
DUCTILE
IRON PIPE

3"-36"

WHY ZINC COATING?

Among non-ferrous anodic metals that help provide corrosion protection for Ductile iron pipe (DI pipe), zinc is one of the most readily available and least expensive. Additionally, all zinc-coated DI pipe is supplied with a topcoat, so it is also NSF/ANSI 61 approved for potable water service. Its lightweight, self-healing nature can provide supplemental corrosion protection that works well with the primary corrosion protection of V-Bio® Enhanced Polyethylene Encasement (V-Bio).

HOW ZINC COATING WORKS

The zinc coating on DI pipe creates a protective zinc oxide dielectric barrier. Zinc by-products, which are left behind after reacting in aggressive soils, form a healing protective barrier that helps to mitigate further corrosion. Although zinc is an enhancement when protecting the pipe from corrosion, it does not provide stand-alone corrosion protection. Contrarily, V-Bio can be used effectively as a stand-alone corrosion protection system for DI pipe.



MCWANE DUCTILE ZINC-COATED PIPE

- Consists of a layer of arc- or paint-applied 99.99% pure zinc coating, having a mass of 200g/m².
- Has a finished layer of standard shop-applied bituminous paint in accordance with AWWA C-151.
- Pipe markings shall include the word "zinc" in the pipe markings or label required by AWWA C-151 and/or other markings deemed appropriate by the manufacturer.
- Shall comply with all applicable parts of ISO 8179 for zinc coatings.
- Minor scratches in the zinc coating will not require repair because of zinc coatings' self-healing nature. Larger areas shall be repaired by field application of zinc-rich paint, following ISO 8179 standards.



COMMON QUESTIONS ABOUT ZINC COATING

- Can wedge action restraint glands, similar to TUF Grips™, be used on zinc-coated pipe? Yes
- Can zinc-coated pipe be used with locking-type gaskets such as Sure Stop 350®? Yes
- Can zinc-coated pipe be cut in the field? Yes, zinc application is compatible with standard push-on or mechanical joints, allowing field cuts in the same way as non-zinc coated pipe. Additional PPE, including respiratory protection, may be required when cutting zinc-coated pipe.
- Can cathodic protection be added on zinc-coated pipe? Yes, cathodic protection systems may be added to any new installation. Decisions to implement any type of cathodic protection should be based on the Consequence and Likelihood results from The Design Decision Model®.
- How much life expectancy does zinc add to the pipe? Zinc is a betterment to the use of V-Bio that will add service life to your DI pipe. The amount of extended life is site specific and depends on several factors, including soil characteristics, the quality of the encasement installation, etc.
- Which pipe manufacturers supply zinc coating? All domestic DI pipe manufacturers can supply zinc-coated pipe.
- How do we identify DI pipe that has a zinc coating? McWane Ductile will apply blue paint to the bell face of any zinc-coated pipe. Additionally, "ZINC" will be displayed on the cast sticker located at the bell end of each pipe (as pictured above).



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NEW JERSEY
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OHIO
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UTAH
1401 E. 2000 South
Provo, UT 84606
801-373-6910



canadapipe.com

CANADA
1757 Burlington St. East
Hamilton, ON L8H-3L5
905-547-3251