

Pipe Protection Products

POLYWRAP

TUBULAR POLYETHYLENE PROTECTION FOR CAST IRON, DUCTILE IRON AND STEEL PIPE

PRODUCT HISTORY

Certain soils and artificial environments have been shown to be corrosive to cast iron pipe. In severe environments, the life of the pipe has been significantly shortened. Extensive tests and field installations for over 47 years have shown that loose polyethylene encasement of the pipe is an effective and economical means of corrosion protection.

PRODUCT USE / DESCRIPTION

Polyethylene film prevents contact between the pipe and the surrounding soil for corrosion protection. However, it is not expected to be an airtight or watertight encasement. It is available in natural (clear), black, purple, blue, green and custom colors, and it is offered in widths suitable for all pipe sizes.

INSTALLATION

Per AWWA C105-05 there are 3 installation methods. Method A, the most commonly used is described here. The 8 mil polyethylene tube should be cut to lengths that provide a one foot overlap beyond each end of a pipe section. Slip the tubing over the pipe with the printed side up, and bunch it back to clear both ends. A shallow bell hole should be made to facilitate installation of the polyethylene. Lower pipe into position and make up the joint. Pull tubing over the joint from the preceding pipe length and tape it securely to the new pipe length. Overlap the polyethylene from the new pipe length back over the same joint and tape in place on the preceding pipe barrel. Pull the polyethylene along the length of the new pipe, folding excess tubing over the top of the pipe barrel and securing it every 3 to 4 feet. Keep the excess polyethylene for the overlap of the next joint bunched back from the joint in preparation for making the next joint. Repeat this process for each polyethylene taped into place.

SPECIFICATIONS

The 8 mil minimum, group 2, linear low density, flat tube, virgin polyethylene film provided meets or exceeds the requirements of AWWA C105-05, ANSI A21.5-05, ASTM D4976 and NT4112-05. The film is marked showing trademark, year of manufacture, type of resin, specification conformance, applicable pipe sizes and the words "warning corrosion protection-repair any damage."

PROPERTIES

Tensile Strength	3600 psi, minimum—ASTM D882
Elongation	800%, minimum—ASTM D882
Dielectric Strength	800 V/mil, minimum—ASTM D149
Impact Resistance	600 g, minimum—ASTM D1709-B
Propagation Tear Resistance	2550 gf, minimum—ASTM D1922

OPTIONS

Northtown's Polywrap is also made in 3' X 100' flat sheets for wrapping fittings and appurtenances and for use in joint make-up, as described in 4.4.2.2 of the AWWA standard.

800 WRAP-A-PIPE

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