

METROPOLITAN UTILITIES DISTRICT	Construction Standard	No: 8.5.2
	Application of Tapes and Wraps For Water Mains	Page: 1 of 3
Prepared by: Bill Travnicsek		<u>Supersedes:</u> New
Approved by: Jeff Loll		Effective: 10-30-09

General

The Metropolitan Utilities District Engineering Department shall approve cold applied tape and primer and petrolatum tape and primer systems. These components are evaluated and approved based on system performance of individual components.

Approved Materials for Buried Pipe & Components

Polyguard 634 Tape with Polyguard 600 Primer (summer usage)
Protectowrap 320 Tape with Protectowrap 1000 Primer (summer usage)
Tapecoat CT Tape with CT Coldprime (summer usage)
Polyken 932 Tape with Polyken 1027 Primer (winter usage)
Polyken 934 Tape with Polyken 1027 Primer (summer usage)

Approved Materials for Vault and Aboveground Pipe & Components

Trenton Wax-Tape #2 with Trenton Wax-Tape Primer or Temcoat Anti-Corrosion Priming Paste

These systems should not be mixed. Use approved tapes with corresponding approved primers.

Procedure

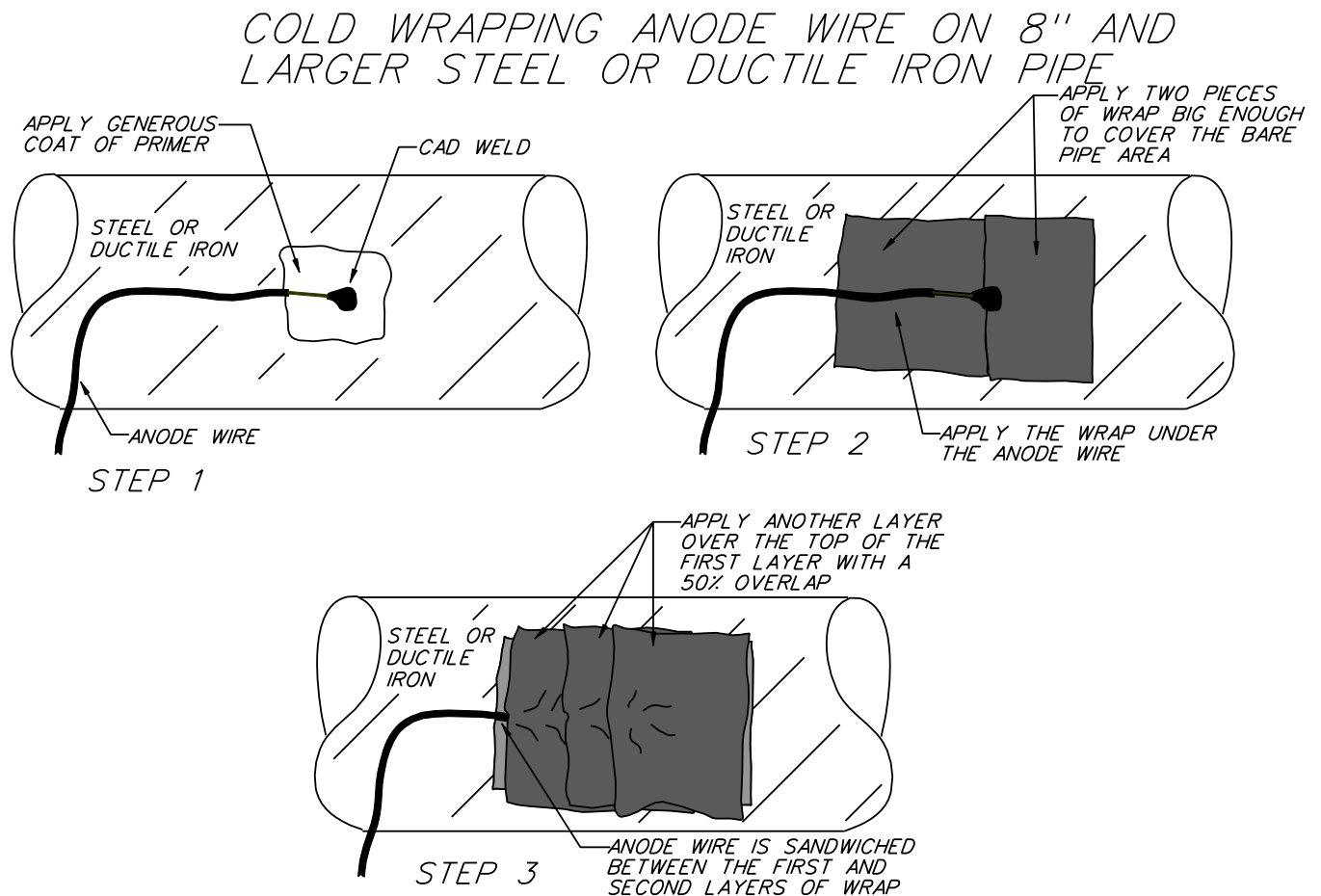
1. Clean the pipe surface to be wrapped of all dirt, rust, and other foreign material with a wire brush and rags. If using cold applied tape and primer, the pipe must be dry.
2. If applicable, remove any kraft paper on the pipe back 2" from the end of the existing coating.
3. **Cold Applied Tapes:** Apply primer to the bare surface and 2" back on each end of the existing coating. After primer becomes tack-free, remove the backing separator from the tape for about 6". With the film-covered side of the tape up, begin to spiral wrap with a 50% overlap. Remove and discard the backing separator from the tape as you wrap. Use only enough pull on the tape to conform it properly to irregular surfaces of the pipe and/or fittings. If excessive pull is used, wrinkles and excessive stretching of the tape will be evident.

Petrolatum Tapes (Wax-Tape): Apply primer to the bare surface and 2" back on each end of existing coating. If the surface is wet, cold or rusty, rub and press on primer firmly to displace the moisture and to ensure adhesion. Apply enough primer around irregular surfaces to prevent air pockets after the tape is installed. Begin to spiral wrap with a 1" overlap. Press and mold the tape into conformity, ensuring there are no air pockets or voids and the tape is in intimate contact with the surface. **NOTE:** For winter use, petrolatum tapes should be kept in the truck cab to maintain pliability.

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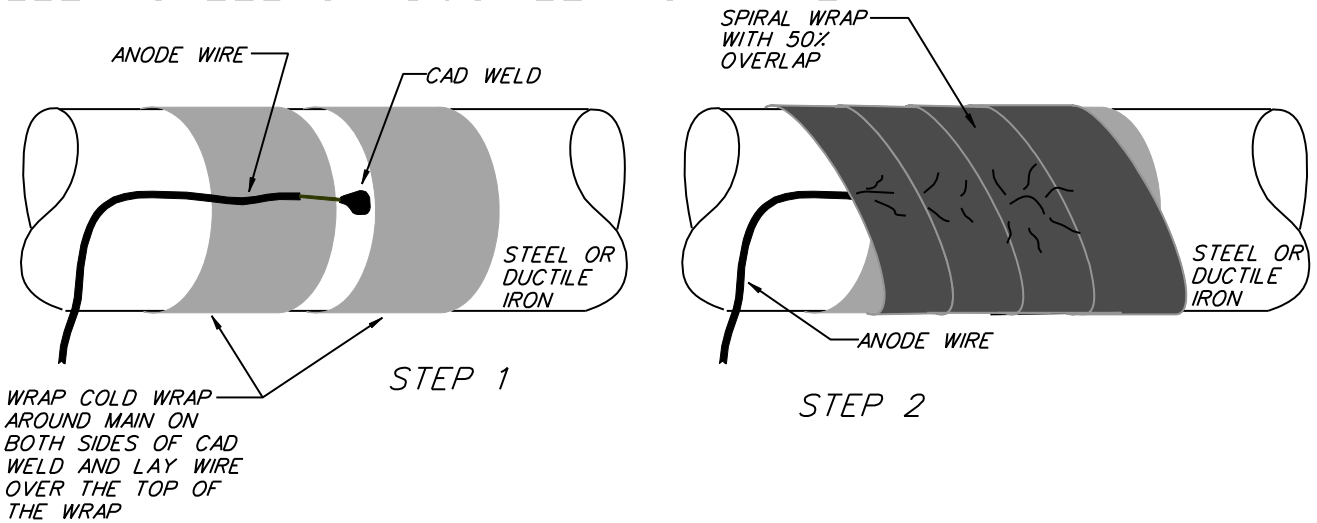
4. When the end of the wrap is reached, release all pull on the tape and cut the tape. Smooth the end into place over the previous lap.
5. Press and smooth out lap seams to ensure a firm contact and seal.

The following illustrations show how an anode wire that is cad-weld bonded to a steel or ductile iron water main should be primed and wrapped.



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*COLD WRAPPING ANODE WIRE ON 6" AND
SMALLER STEEL OR DUCTILE IRON PIPE*



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