



## Innercoat® & Guard-Wrap™

Hot-Applied Coating and Wrapping System for new service installations, field patching, weld cutbacks and pipeline reconditioning.



*Pipe surface is wire brushed to remove loose scale, rust and dirt.*



*Finished application of Innercoat® wax is overwrapped with Guard-Wrap™ wrapper.*



*A thin coating of Innercoat can then be applied over the Guard-Wrap for additional protection.*

The combination of Innercoat® hot-applied wax and Guard-Wrap™ outerwrap is used to prevent corrosion of underground metal structures. Innercoat hot-applied wax is a microcrystalline wax blend that has been successfully used as a pipe coating for over 50 years. Innercoat hot wax coating is ideally suited for the job of protecting against corrosion. It has first-rate waterproofing characteristics because of its low moisture absorption and low rate of moisture transmission. Also, it is an exceptional dielectric barrier with high electrical resistance. When heated to a liquid for application to the pipe surface, Innercoat has an oil-like consistency that penetrates the pores of the metal, thoroughly wetting the surface. Even after hardening, it continues to be pliable or "live," allowing the wax coating to "flex" with the pipe as it moves due to underground stress and temperature variations. It is inert and will not change in character or composition over time, as well as being resistant to chemicals and

bacteria commonly found in soils. Innercoat is applied hot, but quickly cools and hardens and can be backfilled immediately after application of Guard-Wrap outerwrap.

Guard-Wrap outerwrap is composed of a plastic mat and film, saturated with microcrystalline wax that is used to provide additional mechanical protection against backfill stress and impact, while also providing an additional dielectric barrier. Because of its conformability to irregular shapes, it is an excellent wrapper for fittings as well as straight pipe. Guard-Wrap outerwrap is composed of inert materials that will not deteriorate underground, and is resistant to chemicals and bacteria commonly found in soils.

Innercoat hot-applied wax and Guard-Wrap outerwrap in combination are outstanding anticorrosion materials for new service installations, field patching, weld seam cutbacks and pipeline reconditioning.

# Innercoat® Wax Coating

## Description:

Innercoat hot-applied wax coating is a blend of microcrystalline waxes designed to provide the most desirable corrosion resistance, adhesion and wetting characteristics. It is hot-applied directly to the pipe surface and is always over-wrapped with a recommended Trenton wrapper depending on the type of application. Its ease of application and "forgiving" character in difficult applications make it an ideal all-purpose pipe coating.

## End Use:

To protect straight pipe or irregular metal surfaces from corrosion. It can be used for new services, field patching, weld cutbacks and pipeline reconditioning.

## Application Procedures:

Clean pipe surface free of loose rust and scale, loose coating, dirt, grease, moisture and other foreign matter. Surface temperature must be 5° F above the dewpoint. Heat Innercoat to between 250° and 350° F in summer and between 350° and 500° F in winter to ensure proper adhesion. Then pour or brush Innercoat directly onto the clean and dry surface. For straight pipe use the "granny rag" method. Once Innercoat is applied, wrap with Guard-Wrap. A thin coating of Innercoat can then be applied over the Guard-Wrap for additional protection.

## Packaging:

47 lb. block (1 block per case)  
7½ lb. blocks (6 per case) 45 lbs/case  
7½ lb. blocks, quartered (6 per case) 45 lbs/case

## Specifications:

|                            |               |
|----------------------------|---------------|
| Color                      | Brown         |
| Specific gravity at 77 °F. | .88-.94       |
| Flash point, min.          | 500 °F.       |
| Melting point              | 160-175 °F.   |
| Penetration at 77 °F.      | 26-50         |
| Dielectric strength        | 100 volts/mil |

## Advantages:

- An effective pipe coating proven by over 50 years' field use
- Excellent corrosion barrier
- Low moisture absorption and transmission
- Excellent dielectric barrier
- Excellent wetting and adhesion properties
- Excellent ductility
- Permanently inert
- Resistant to chemicals and bacteria commonly found in soils
- Easy to apply
- Compatible with other coating materials
- Can be reheated without altering composition
- No primers required
- No waiting before backfilling
- No dangerous fumes
- Nontoxic, noncarcinogenic

# Guard-Wrap™ Outerwrap

## Description:

Guard-Wrap outerwrap consists of a spun plastic mat saturated with microcrystalline wax to which a dielectric film is laminated, also with a microcrystalline wax. Guard-Wrap outerwrap is completely conformable and has excellent dead-fold properties (like aluminum foil when crumpled up) making it ideal for irregular fittings as well as straight pipe.

## End Use:

It is used as a protective wrapper over Innercoat hot-applied wax and provides mechanical strength against backfill stress while also contributing an added dielectric barrier.

## Application Procedure:

Pre-apply Innercoat hot-applied wax to the pipe surface and then spiral wrap or cigarette wrap Guard-Wrap outerwrap over the Innercoat. Guard-Wrap can be used as a "granny rag". Guard-Wrap can also be dipped in hot Innercoat and applied in pieces to irregular surfaces that have been previously coated.

## Packaging:

In cardboard cartons containing 50 sq. yds.  
6" x 150' rolls (6 rolls per carton) 12" x 150' rolls (3 rolls per carton)  
9" x 150' rolls (4 rolls per carton) 18" x 150' rolls (2 rolls per carton)

## Specifications:

|                     |                    |
|---------------------|--------------------|
| Color               | Brown              |
| Saturant melt point | 135-150 °F.        |
| Plastic membrane    | .5 mil             |
| Thickness           | 10-14 mils         |
| Dielectric strength | 3500 volts minimum |

## Advantages:

- Withstands hot-application temperatures
- A two-part wrapper (plastic mat and film) for extra mechanical strength
- Excellent dielectric strength
- Conformable to irregular shapes
- Composed of inert materials
- Resistant to chemicals and bacteria

## Estimated Quantity Required (Hand Application)

| Pipe Size | Innercoat<br>Pounds/100 ft.* | Guard-Wrap<br>Square yards/100 ft. |
|-----------|------------------------------|------------------------------------|
| 4         | 50                           | 18                                 |
| 6         | 75                           | 26                                 |
| 8         | 100                          | 34                                 |
| 10        | 125                          | 42                                 |
| 12        | 150                          | 49                                 |
| 16        | 200                          | 69                                 |
| 18        | 225                          | 76                                 |
| 20        | 250                          | 84                                 |
| 22        | 275                          | 93                                 |
| 24        | 300                          | 102                                |
| 26        | 325                          | 110                                |
| 30        | 375                          | 135                                |
| 34        | 425                          | 144                                |
| 36        | 450                          | 153                                |

\*Add 25% to Innercoat quantity if a final floodcoat is used over the Guard-Wrap.



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